

Berliner
Astronomisches Jahrbuch
für
1 9 3 1

1 5 6. J a h r g a n g

Herausgegeben von dem
Astronomischen Rechen-Institut

Berlin
Ferd. Dümmlers Verlagsbuchhandlung
(Kommissionsverlag)

1929

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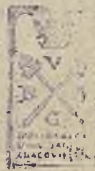
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Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich.

Die Zeit ist vom Jahrgang 1925 an in Welt-Zeit, d. i. Bürgerliche Zeit Greenwich, ausgedrückt (siehe Erläuterungen).

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,

Vol. VI, Part I—IV: *Tables of the four inner planets,*

Vol. VII, Part I—IV: *Tables of Jupiter, Saturn,*

Uranus, Neptune.

Als Sonnenhalbmesser in der mittleren Entfernung ist $16' 1''.50$ angenommen; dagegen liegt der Berechnung der Finsternisse der von Auwers in A. N., Bd. 128 gegebene Wert $15' 59''.63$ zugrunde.

Für den Mond:

Tables of the Motion of the Moon by Ernest W. Brown.

Der geozentrische Mondhalbmesser r_{α} ist aus der Äquatorial-Horizontalparallaxe p_{α} gerechnet nach der Formel

$$r_{\alpha} = 0.272469 p_{\alpha} + 1''.50,$$

für die Finsternisse nach $\sin r_{\alpha} = 0.272274 \sin p_{\alpha}$.

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. Bd. 199, 263) angenommen: $J = 1^{\circ} 32' 20''$.

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlichen Astronomischen Rechen-Instituts).

Die Sterngrößen sind der »Revised Harvard Photometry (Harvard Annals, vol. 50)«, die Sternspektren dem »Henry Draper Catalogue (Harvard Annals, vol. 91—99)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. 28, 67)	
Die Nutations-Konstante	9".21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. 15, 241)	
Die Aberrations-Konstante	20".47
Die Sonnen-Parallaxe	8".80
Die Abplattung der Erde	1:297.0

Für die Satelliten:

Die Angaben über die 4 älteren Jupitertrabanten beruhen auf den neuen Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter*. London 1910), die Angaben über die 8 älteren Saturnsatelliten auf den von H. Struve ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Vom vorliegenden Jahrgang an wird die Sternzeit für 0^h Weltzeit auf drei Dezimalen der Sekunde gegeben. Daneben ist die Nutation in Rektaszension, getrennt nach lang- und kurzperiodischen Gliedern, angeführt.

Die bisher gegebenen Größen p , q , r zur Reduktion scheinbarer Koordinatendifferenzen auf mittlere, für den Jahresanfang geltende, sind durch die Größen j und k ersetzt worden, mit denen diese Reduktion nach den Formeln auf S. 267* ausgeführt wird.

Bei den Sternbedeckungen sind genäherte Zeiten der Berührungen des Mondrandes mit Sternen für die Orte Berlin-Babelsberg, Königsberg und München aufgenommen worden. Im übrigen hat der Inhalt des Jahrbuchs gegen das Vorjahr keine Änderungen erfahren.

Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Ein Teil der Angaben wurde seitens der American Ephemeris and Nautical Almanac, Washington, und des Nautical Almanac Office, London, zur Verfügung gestellt. Die Ephemeride des Kraters Mösting A. ist von dem Institut Astronomique in Leningrad berechnet worden.

Die Schriftleitung des Astronomischen Jahrbuchs für 1931 lag in den Händen von Herrn Kohl; an den verschiedenen Arbeiten beteiligten sich außerdem die Herren Stichtenoth † und Heinemann.

Astronomisches Rechen-Institut.

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Zeit- und Festrechnung 1931

Das Jahr 1931 entspricht dem
Jahr 6644 der Julianischen Periode und dem
Jahr 7439 — 7440 der Byzantinischen Ära

Gregorianischer Kalender

Goldene Zahl	13
Epakte	XI
Sonnenzirkel	8
Sonntagsbuchstabe	D

Septuagesima	1. Febr.
Aschermittwoch	18. Febr.
I. Quatember	25. Febr.
Ostersonntag	5. April
Himmelfahrt	14. Mai
Pfingstsonntag	24. Mai
II. Quatember	27. Mai
III. Quatember	16. Sept.
I. Advent	29. Nov.
IV. Quatember	16. Dez.

Kalender der Mohammedaner

1349 (Schaltjahr von 355 Tagen)

Ramadân	I	1931 Jan. 20
Schewwâl	I	» Febr. 19
Dsû 'l-kade	I	» März 20
Dsû 'l-hedsche	I	» April 19

1350 (Gemeinjahr von 354 Tagen)

Moharrem	I	1931 Mai 19
Safar	I	» Juni 18
Rebi-el-awwel	I	» Juli 17
Rebi-el-accher	I	» Aug. 16
Dschemâdi-el-awwel	I	» Sept. 14
Dschemâdi-el-accher	I	» Okt. 14
Redscheb	I	» Nov. 12
Schabân	I	» Dez. 12

Kalender der Juden

5691 (Gemeinjahr von 354 Tagen)

Schebat	I	. . . . .	1931	Jan.	19
Adar	I	. . . . .	»	Febr.	18
»	13	Fasten - Esther	»	März	2
»	14	Purim	»	»	3
»	15	Schuschan - Purim	»	»	4
Nisan	I	. . . . .	»	»	19
»	15	*Passah - Anfang	»	April	2
»	16	*Zweites Fest	»	»	3
»	21	*Siebentes Fest	»	»	8
»	22	*Achstes Fest	»	»	9
Ijar	I	. . . . .	»	»	18
»	18	Lag - B'omer	»	Mai	5
Sivan	I	. . . . .	»	»	17
»	6	*Wochenfest	»	»	22
»	7	*Zweites Fest	»	»	23
Thamuz	I	. . . . .	»	Juni	16
»	17	Fasten. Tempeleroberung	»	Juli	2
Ab	I	. . . . .	»	»	15
»	9	Fasten. Tempelverbrennung	»	»	23
Elul	I	. . . . .	»	Aug.	14

5692 (Schaltjahr von 385 Tagen)

Tischri	I	*Neujahrsfest	1931	Sept.	12
»	2	*Zweites Fest	»	»	13
»	3	Fasten - Gedaljah	»	»	14
»	10	*Versöhnungsfest	»	»	21
»	15	*Laubhüttenfest	»	»	26
»	16	*Zweites Fest	»	»	27
»	21	Palmenfest	»	Okt.	2
»	22	*Laubhüttenende	»	»	3
»	23	*Gesetzesfreude	»	»	4
Marcheschwan	I	. . . . .	»	»	12
Kislev	I	. . . . .	»	Nov.	11
»	25	Tempelweihe	»	Dez.	5
Tebet	I	. . . . .	»	»	11
»	10	Fasten. Belagerung Jerusalems	»	»	20

Die mit * bezeichneten Festtage werden streng gefeiert.

Astronomische Zeichen und Abkürzungen

Bezeichnung der Wochentage	Adspekten
☉ Sonntag	♌ Konjunktion
☾ Montag	☐ Quadratur
♂ Dienstag	♍ Opposition
♀ Mittwoch	Mondphasen
♃ Donnerstag	● Neumond
♀ Freitag	◐ Erstes Viertel
♄ Sonnabend	◯ Vollmond
	◑ Letztes Viertel
Ω Aufsteigender } \oslash Absteigender } Knoten	

Z e i c h e n

des Tierkreises und der Himmelskörper

♈ Widder . . .	◦ Grad	☉ Sonne
♉ Stier	30 »	☾ Mond
♊ Zwillinge . .	60 »	☿ Merkur
♋ Krebs	90 »	♀ Venus
♌ Löwe	120 »	♁ Erde
♍ Jungfrau . .	150 »	♂ Mars
♎ Wage	180 »	♃ Jupiter
♏ Skorpion . .	210 »	♄ Saturn
♐ Schütze . . .	240 »	♅ Uranus
♑ Steinbock . .	270 »	♆ Neptun
♒ Wassermann	300 »	
♓ Fische . . .	330 »	

Sonne, Mond, Große Planeten

1931

		O ^b Welt-Zeit							
Tag	Wochentag	Zeitgleichung		Scheinbare		Scheinbare		Halbe	Halb-
		Mittlere Zeit <i>minus</i> Wahre Zeit		Rektaszension		Deklination		Durch- gangs- Dauer St.-Zt.	messer
1931									
Jan.	0	Mi	+ 2 ^m 37.43 ^s 28.79	18 ^h 37 ^m 24.47 ^s 25.35	-23° 10' 18.4" 11.3	71.12	16 17.85		
	1	Do	3 6.22 28.48	18 41 49.82 25.03	23 6 7.1 4 38.8	71.09	16 17.87		
	2	Fr	3 34.70 28.16	18 46 14.85 24.72	23 1 28.3 5 6.4	71.05	16 17.88		
	3	Sa	4 2.86 27.80	18 50 39.57 24.36	22 56 21.9 5 33.8	71.00	16 17.89		
	4	St	4 30.66 27.42	18 55 3.93 23.98	22 50 48.1 6 1.0	70.96	16 17.89		
	5	Mo	4 58.08 27.02	18 59 27.91 23.57	22 44 47.1 6 28.0	70.90	16 17.88		
	6	Di	+ 5 25.10 26.59	19 3 51.48 23.15	-22 38 19.1 6 54.8	70.84	16 17.87		
	7	Mi	5 51.69 26.14	19 8 14.63 22.70	22 31 24.3 7 21.5	70.78	16 17.85		
	8	Do	6 17.83 25.66	19 12 37.33 22.23	22 24 2.8 7 48.0	70.72	16 17.82		
	9	Fr	6 43.49 25.17	19 16 59.56 21.73	22 16 14.8 8 14.2	70.65	16 17.79		
	10	Sa	7 8.66 24.66	19 21 21.29 21.21	22 8 0.6 8 40.3	70.57	16 17.75		
	11	St	7 33.32 24.11	19 25 42.50 20.67	21 59 20.3 9 6.0	70.50	16 17.71		
	12	Mo	+ 7 57.43 23.54	19 30 3.17 20.10	-21 50 14.3 9 31.5	70.43	16 17.66		
	13	Di	8 20.97 22.95	19 34 23.27 19.51	21 40 42.8 9 56.9	70.34	16 17.60		
	14	Mi	8 43.92 22.33	19 38 42.78 18.89	21 30 45.9 10 21.8	70.26	16 17.54		
	15	Do	9 6.25 21.69	19 43 1.67 18.25	21 20 24.1 10 46.5	70.17	16 17.48		
	16	Fr	9 27.94 21.03	19 47 19.92 17.59	21 9 37.6 11 10.9	70.08	16 17.42		
	17	Sa	9 48.97 20.35	19 51 37.51 16.91	20 58 26.7 11 35.0	69.98	16 17.34		
	18	St	+10 9.32 19.65	19 55 54.42 16.20	-20 46 51.7 11 58.7	69.89	16 17.27		
	19	Mo	10 28.97 18.92	20 0 10.62 15.48	20 34 53.0 12 22.2	69.79	16 17.19		
	20	Di	10 47.89 18.18	20 4 26.10 14.74	20 22 30.8 12 45.2	69.69	16 17.11		
	21	Mi	11 6.07 17.43	20 8 40.84 13.98	20 9 45.6 13 7.8	69.59	16 17.03		
	22	Do	11 23.50 16.65	20 12 54.82 13.21	19 56 37.8 13 30.2	69.48	16 16.94		
	23	Fr	11 40.15 15.86	20 17 8.03 12.42	19 43 7.6 13 52.2	69.38	16 16.85		
	24	Sa	+11 56.01 15.07	20 21 20.45 11.62	-19 29 15.4 14 13.7	69.28	16 16.75		
	25	St	12 11.08 14.25	20 25 32.07 10.82	19 15 1.7 14 34.9	69.17	16 16.65		
	26	Mo	12 25.33 13.45	20 29 42.89 10.00	19 0 26.8 14 55.7	69.06	16 16.54		
	27	Di	12 38.78 12.62	20 33 52.89 9.17	18 45 31.1 15 16.0	68.94	16 16.44		
	28	Mi	12 51.40 11.79	20 38 2.06 8.35	18 30 15.1 15 36.1	68.83	16 16.32		
	29	Do	13 3.19 10.95	20 42 10.41 7.51	18 14 39.0 15 55.7	68.72	16 16.20		
	30	Fr	+13 14.14 10.13	20 46 17.92 6.68	-17 58 43.3 16 14.9	68.61	16 16.08		
	31	Sa	13 24.27 9.29	20 50 24.60 5.85	17 42 28.4 16 33.6	68.49	16 15.95		
Febr.	1	St	13 33.56 8.46	20 54 30.45 5.02	17 25 54.8 16 52.1	68.38	16 15.82		
	2	Mo	13 42.02 7.64	20 58 35.47 4.20	17 9 2.7 17 10.2	68.26	16 15.68		
	3	Di	13 49.66 6.82	21 2 39.67 3.37	16 51 52.5 17 27.8	68.14	16 15.53		
	4	Mi	13 56.48 6.01	21 6 43.04 2.57	16 34 24.7 17 45.1	68.03	16 15.38		
	5	Do	+14 2.49 5.20	21 10 45.61 1.76	-16 16 39.6 18 1.9	67.91	16 15.22		
	6	Fr	14 7.69 4.41	21 14 47.37 0.96	15 58 37.7 18 18.5	67.80	16 15.06		
	7	Sa	14 12.10 3.62	21 18 48.33 0.18	15 40 19.2 18 34.6	67.69	16 14.89		
	8	St	14 15.72 2.84	21 22 48.51 59.40	15 21 44.6 18 50.3	67.57	16 14.72		
	9	Mo	14 18.56 2.07	21 26 47.91 58.63	15 2 54.3 19 5.6	67.46	16 14.54		
	10	Di	+14 20.63	21 30 46.54	-14 43 48.7	67.35	16 14.36		

0 ^h Welt-Zeit										Auf- gang	Unter- gang
Tag	Julian. Zeit	Sternzeit	Nutation in AR.		Mittleres Äquinoktium 1931.0		log R	in { +5° Breite 0 ^h Länge			
			langp. Gl.	kurzp. Gl.	Länge	Breite					
1931	2426		in o.oor								
Jan. 0	341.5	6 ^h 34 ^m 47.038	—324	—19	278° 35' 56.0	61 8.4	+0.43	9.992 6768	82	7 ^h 59 ^m 16 ^h 7 ^m	
1	342.5	6 38 43.597	320	—18	279 37 4.4	61 8.2	+0.54	9.992 6686	55	7 59 16 8	
2	343.5	6 42 40.156	316	—14	280 38 12.6	61 8.2	+0.63	9.992 6631	27	7 59 16 9	
3	344.5	6 46 36.715	313	— 8	281 39 20.8	61 8.1	+0.71	9.992 6604	2	7 59 16 10	
4	345.5	6 50 33.274	309	0	282 40 28.9	61 8.0	+0.76	9.992 6606	31	7 59 16 11	
5	346.5	6 54 29.833	305	+ 7	283 41 36.9	61 7.9	+0.79	9.992 6637	60	7 58 16 12	
6	347.5	6 58 26.391	—302	+13	284 42 44.8	61 8.0	+0.78	9.992 6697	89	7 58 16 13	
7	348.5	7 2 22.950	299	+15	285 43 52.8	61 8.0	+0.73	9.992 6786	118	7 58 16 14	
8	349.5	7 6 19.509	295	+14	286 45 0.8	61 8.0	+0.66	9.992 6904	145	7 58 16 16	
9	350.5	7 10 16.068	292	+ 9	287 46 8.8	61 8.1	+0.57	9.992 7049	170	7 57 16 17	
10	351.5	7 14 12.626	289	+ 3	288 47 16.9	61 8.2	+0.45	9.992 7219	195	7 57 16 18	
11	352.5	7 18 9.185	285	— 4	289 48 25.1	61 8.2	+0.32	9.992 7414	218	7 56 16 20	
12	353.5	7 22 5.744	—282	— 9	290 49 33.3	61 8.1	+0.19	9.992 7632	239	7 56 16 21	
13	354.5	7 26 2.302	279	—11	291 50 41.4	61 8.1	+0.06	9.992 7871	259	7 55 16 22	
14	355.5	7 29 58.860	276	—10	292 51 49.5	61 7.9	—0.04	9.992 8130	278	7 54 16 24	
15	356.5	7 33 55.419	273	— 6	293 52 57.4	61 7.6	—0.13	9.992 8408	295	7 54 16 25	
16	357.5	7 37 51.977	270	— 1	294 54 5.0	61 7.3	—0.20	9.992 8703	312	7 53 16 27	
17	358.5	7 41 48.535	267	+ 5	295 55 12.3	61 6.8	—0.25	9.992 9015	329	7 52 16 28	
18	359.5	7 45 45.093	—265	+10	296 56 19.1	61 6.4	—0.26	9.992 9344	345	7 51 16 30	
19	360.5	7 49 41.651	263	+13	297 57 25.5	61 5.7	—0.25	9.992 9689	362	7 50 16 31	
20	361.5	7 53 38.209	260	+15	298 58 31.2	61 5.0	—0.21	9.993 0051	377	7 49 16 33	
21	362.5	7 57 34.767	257	+13	299 59 36.2	61 4.3	—0.14	9.993 0428	394	7 48 16 34	
22	363.5	8 1 31.324	255	+10	301 0 40.5	61 3.4	—0.05	9.993 0822	411	7 47 16 36	
23	364.5	8 5 27.882	253	+ 4	302 1 43.9	61 2.5	+0.05	9.993 1233	428	7 46 16 38	
24	365.5	8 9 24.440	—250	— 2	303 2 46.4	61 1.5	+0.17	9.993 1661	447	7 45 16 39	
25	366.5	8 13 20.997	248	— 9	304 3 47.9	61 0.4	+0.29	9.993 2108	465	7 44 16 41	
26	367.5	8 17 17.555	246	—15	305 4 48.3	60 59.3	+0.42	9.993 2573	485	7 43 16 43	
27	368.5	8 21 14.112	244	—18	306 5 47.6	60 58.1	+0.54	9.993 3058	505	7 42 16 44	
28	369.5	8 25 10.669	242	—19	307 6 45.7	60 56.9	+0.65	9.993 3563	526	7 41 16 46	
29	370.5	8 29 7.226	241	—17	308 7 42.6	60 55.7	+0.75	9.993 4089	549	7 40 16 48	
30	371.5	8 33 3.783	—239	—11	309 8 38.3	60 54.5	+0.83	9.993 4638	573	7 38 16 49	
31	372.5	8 37 0.340	237	— 4	310 9 32.8	60 53.3	+0.88	9.993 5211	597	7 37 16 51	
Febr. 1	373.5	8 40 56.897	236	+ 4	311 10 26.1	60 52.0	+0.90	9.993 5808	623	7 35 16 53	
2	374.5	8 44 53.453	235	+10	312 11 18.1	60 50.9	+0.89	9.993 6431	649	7 34 16 54	
3	375.5	8 48 50.010	233	+14	313 12 9.0	60 49.8	+0.84	9.993 7080	675	7 32 16 56	
4	376.5	8 52 46.566	232	+14	314 12 58.8	60 48.7	+0.77	9.993 7755	701	7 31 16 58	
5	377.5	8 56 43.123	—231	+11	315 13 47.5	60 47.7	+0.67	9.993 8456	725	7 30 17 0	
6	378.5	9 0 39.679	231	+ 5	316 14 35.2	60 46.7	+0.55	9.993 9181	749	7 28 17 1	
7	379.5	9 4 36.235	230	— 1	317 15 21.9	60 45.7	+0.42	9.993 9930	771	7 26 17 3	
8	380.5	9 8 32.792	229	— 7	318 16 7.6	60 44.8	+0.29	9.994 0701	791	7 25 17 5	
9	381.5	9 12 29.348	228	—10	319 16 52.4	60 43.8	+0.16	9.994 1492	809	7 23 17 6	
10	382.5	9 16 25.903	—228	—10	320 17 36.2		+0.04	9.994 2301		7 22 17 8	

		Ob Welt-Zeit							
Tag	Wochentag	Zeitgleichung		Scheinbare		Scheinbare		Halbe	Halb-
		Mittlere Zeit minus Wahre Zeit		Rektaszension		Deklination		Durch- gangs- Dauer St.-Zt.	messer
1931									
Febr. 10	Di	+14 ^m 20.63	1.30	21 ^h 30 ^m 46.54	3 57.85	-14 43 48.7	19 20.6	67.35	16 14.36
11	Mi	14 21.93	0.54	21 34 44.39	3 57.09	14 24 28.1	19 35.1	67.24	16 14.17
12	Do	14 22.47	0.22	21 38 41.48	3 56.34	14 4 53.0	19 49.1	67.13	16 13.98
13	Fr	14 22.25	0.96	21 42 37.82	3 55.59	13 45 3.9	20 2.9	67.02	16 13.79
14	Sa	14 21.29	1.71	21 46 33.41	3 54.85	13 25 1.0	20 16.0	66.90	16 13.60
15	St	14 19.58	2.44	21 50 28.26	3 54.12	13 4 45.0	20 28.8	66.80	16 13.40
16	Mo	+14 17.14	3.16	21 54 22.38	3 53.39	-12 44 16.2	20 41.2	66.69	16 13.20
17	Di	14 13.98	3.87	21 58 15.77	3 52.68	12 23 35.0	20 53.2	66.59	16 13.00
18	Mi	14 10.11	4.58	22 2 8.45	3 51.97	12 2 41.8	21 4.6	66.49	16 12.79
19	Do	14 5.53	5.28	22 6 0.42	3 51.28	11 41 37.2	21 15.7	66.39	16 12.59
20	Fr	14 0.25	5.97	22 9 51.70	3 50.60	11 20 21.5	21 26.3	66.29	16 12.38
21	Sa	13 54.28	6.63	22 13 42.30	3 49.92	10 58 55.2	21 36.5	66.19	16 12.17
22	St	+13 47.65	7.29	22 17 32.22	3 49.26	-10 37 18.7	21 46.2	66.10	16 11.96
23	Mo	13 40.36	7.94	22 21 21.48	3 48.62	10 15 32.5	21 55.6	66.01	16 11.74
24	Di	13 32.42	8.57	22 25 10.10	3 47.98	9 53 36.9	22 4.4	65.92	16 11.52
25	Mi	13 23.85	9.18	22 28 58.08	3 47.37	9 31 32.5	22 13.0	65.83	16 11.30
26	Do	13 14.67	9.79	22 32 45.45	3 46.77	9 9 19.5	22 21.0	65.75	16 11.08
27	Fr	13 4.88	10.37	22 36 32.22	3 46.19	8 46 58.5	22 28.7	65.66	16 10.85
28	Sa	+12 54.51	10.93	22 40 18.41	3 45.62	-8 24 29.8	22 36.0	65.58	16 10.63
März 1	St	12 43.58	11.48	22 44 4.03	3 45.07	8 1 53.8	22 42.8	65.49	16 10.39
2	Mo	12 32.10	12.00	22 47 49.10	3 44.56	7 39 11.0	22 49.3	65.42	16 10.16
3	Di	12 20.10	12.50	22 51 33.66	3 44.05	7 16 21.7	22 55.5	65.35	16 9.92
4	Mi	12 7.60	12.97	22 55 17.71	3 43.58	6 53 26.2	23 1.2	65.28	16 9.68
5	Do	11 54.63	13.43	22 59 1.29	3 43.13	6 30 25.0	23 6.7	65.21	16 9.43
6	Fr	+11 41.20	13.86	23 2 44.42	3 42.69	-6 7 18.3	23 11.7	65.14	16 9.18
7	Sa	11 27.34	14.26	23 6 27.11	3 42.29	5 44 6.6	23 16.5	65.08	16 8.92
8	St	11 13.08	14.65	23 10 9.40	3 41.91	5 20 50.1	23 20.8	65.02	16 8.67
9	Mo	10 58.43	15.01	23 13 51.31	3 41.54	4 57 29.3	23 24.8	64.97	16 8.41
10	Di	10 43.42	15.35	23 17 32.85	3 41.20	4 34 4.5	23 28.4	64.91	16 8.14
11	Mi	10 28.07	15.68	23 21 14.05	3 40.88	4 10 36.1	23 31.7	64.86	16 7.88
12	Do	+10 12.39	15.97	23 24 54.93	3 40.58	-3 47 4.4	23 34.6	64.81	16 7.61
13	Fr	9 56.42	16.26	23 28 35.51	3 40.29	3 23 29.8	23 37.1	64.76	16 7.34
14	Sa	9 40.16	16.53	23 32 15.80	3 40.03	2 59 52.7	23 39.1	64.72	16 7.08
15	St	9 23.63	16.77	23 35 55.83	3 39.78	2 36 13.6	23 40.9	64.68	16 6.81
16	Mo	9 6.86	17.01	23 39 35.61	3 39.55	2 12 32.7	23 42.2	64.64	16 6.53
17	Di	8 49.85	17.21	23 43 15.16	3 39.34	1 48 50.5	23 43.2	64.61	16 6.26
18	Mi	+8 32.64	17.41	23 46 54.50	3 39.14	-1 25 7.3	23 43.7	64.58	16 5.99
19	Do	8 15.23	17.59	23 50 33.64	3 38.97	1 1 23.6	23 43.8	64.55	16 5.72
20	Fr	7 57.64	17.74	23 54 12.61	3 38.81	0 37 39.8	23 43.6	64.53	16 5.45
21	Sa	7 39.90	17.88	23 57 51.42	3 38.67	-0 13 56.2	23 43.0	64.51	16 5.18
22	St	7 22.02	18.01	0 1 30.09	3 38.55	+0 9 46.8	23 41.9	64.49	16 4.91
23	Mo	+7 4.01		0 5 8.64		+0 33 28.7		64.47	16 4.64

Tag	O ^b Welt-Zeit							Auf- gang in { +5° Breite o ^b Länge	Unter- gang			
	Julian. Zeit	Sternzeit	Nutation in A.R.		Mittleres Äquinoktium 1931.0		log R					
			langp. Gl.	kurzp. Gl.	Länge	Breite						
1931	2426		in 0.001									
Febr. 10	382.5	9 ^h 16 ^m 25.903	—228	—10	320° 17' 36.2"	60' 42.8"	+0.04	9.994 2301	827	7 ^h 22 ^m 17 ^h 8 ^m		
	11	383.5	9 20 22.459	227	— 7	321 18 19.0	60 41.7	—0.05	9.994 3128	842	7 20 17 10	
	12	384.5	9 24 19.015	227	— 2	322 19 0.7	60 40.5	—0.13	9.994 3970	856	7 18 17 12	
	13	385.5	9 28 15.571	226	+ 4	323 19 41.2	60 39.3	—0.18	9.994 4826	869	7 16 17 13	
	14	386.5	9 32 12.127	226	+10	324 20 20.5	60 38.1	—0.20	9.994 5695	881	7 15 17 15	
	15	387.5	9 36 8.682	226	+13	325 20 58.6	60 36.8	—0.19	9.994 6576	892	7 13 17 17	
	16	388.5	9 40 5.237	226	+15	326 21 35.4	60 35.4	—0.15	9.994 7468	903	7 11 17 18	
	17	389.5	9 44 1.792	226	+15	327 22 10.8	60 33.8	—0.09	9.994 8371	912	7 9 17 20	
	18	390.5	9 47 58.347	226	+12	328 22 44.6	60 32.3	—0.01	9.994 9283	923	7 7 17 22	
	19	391.5	9 51 54.902	227	+ 6	329 23 16.9	60 30.6	+0.09	9.995 0206	931	7 5 17 24	
	20	392.5	9 55 51.458	227	0	330 23 47.5	60 29.0	+0.21	9.995 1137	942	7 4 17 25	
	21	393.5	9 59 48.012	228	— 7	331 24 16.5	60 27.2	+0.33	9.995 2079	952	7 2 17 27	
	22	394.5	10 3 44.567	—228	—13	332 24 43.7	60 25.4	+0.45	9.995 3031	962	7 0 17 29	
	23	395.5	10 7 41.122	229	—17	333 25 9.1	60 23.4	+0.58	9.995 3993	972	6 58 17 30	
	24	396.5	10 11 37.677	230	—19	334 25 32.5	60 21.6	+0.69	9.995 4965	984	6 56 17 32	
	25	397.5	10 15 34.231	230	—18	335 25 54.1	60 19.5	+0.79	9.995 5949	995	6 54 17 34	
	26	398.5	10 19 30.786	231	—13	336 26 13.6	60 17.5	+0.87	9.995 6944	1009	6 52 17 35	
	27	399.5	10 23 27.340	232	— 7	337 26 31.1	60 15.5	+0.92	9.995 7953	1022	6 50 17 37	
	28	400.5	10 27 23.895	—233	+ 1	338 26 46.6	60 13.5	+0.95	9.995 8975	1038	6 48 17 39	
	März	1	401.5	10 31 20.449	234	+ 7	339 27 0.1	60 11.5	+0.94	9.996 0013	1054	6 46 17 40
		2	402.5	10 35 17.003	235	+12	340 27 11.6	60 9.5	+0.89	9.996 1067	1070	6 44 17 42
		3	403.5	10 39 13.557	236	+13	341 27 21.1	60 7.5	+0.82	9.996 2137	1088	6 42 17 44
		4	404.5	10 43 10.111	237	+11	342 27 28.6	60 5.7	+0.72	9.996 3225	1106	6 40 17 45
5		405.5	10 47 6.666	239	+ 6	343 27 34.3	60 3.9	+0.59	9.996 4331	1123	6 38 17 47	
6		406.5	10 51 3.220	—240	0	344 27 38.2	60 2.1	+0.45	9.996 5454	1138	6 36 17 49	
7		407.5	10 54 59.774	242	— 6	345 27 40.3	60 0.5	+0.31	9.996 6592	1154	6 33 17 50	
8		408.5	10 58 56.327	243	— 9	346 27 40.8	59 58.8	+0.17	9.996 7746	1168	6 31 17 52	
9		409.5	11 2 52.881	244	—10	347 27 39.6	59 57.2	+0.04	9.996 8914	1179	6 29 17 54	
10		410.5	11 6 49.435	246	— 8	348 27 36.8	59 55.6	—0.07	9.997 0093	1188	6 27 17 55	
11		411.5	11 10 45.989	247	— 3	349 27 32.4	59 53.9	—0.15	9.997 1281	1197	6 25 17 57	
12		412.5	11 14 42.543	—249	+ 3	350 27 26.3	59 52.3	—0.21	9.997 2478	1203	6 23 17 58	
13		413.5	11 18 39.097	251	+ 9	351 27 18.6	59 50.6	—0.24	9.997 3681	1209	6 20 18 0	
14		414.5	11 22 35.651	252	+13	352 27 9.2	59 48.9	—0.25	9.997 4890	1213	6 18 18 2	
15		415.5	11 26 32.205	254	+16	353 26 58.1	59 47.0	—0.22	9.997 6103	1216	6 16 18 3	
16		416.5	11 30 28.758	256	+16	354 26 45.1	59 45.3	—0.17	9.997 7319	1217	6 14 18 5	
17		417.5	11 34 25.312	257	+13	355 26 30.4	59 43.3	—0.08	9.997 8536	1218	6 12 18 6	
18	418.5	11 38 21.865	—259	+ 9	356 26 13.7	59 41.4	+0.02	9.997 9754	1219	6 10 18 8		
19	419.5	11 42 18.419	261	+ 3	357 25 55.1	59 39.5	+0.13	9.998 0973	1218	6 8 18 10		
20	420.5	11 46 14.972	263	— 4	358 25 34.6	59 37.4	+0.25	9.998 2191	1218	6 5 18 11		
21	421.5	11 50 11.526	264	—10	359 25 12.0	59 35.3	+0.37	9.998 3409	1217	6 3 18 13		
22	422.5	11 54 8.080	266	—15	0 24 47.3	59 33.1	+0.49	9.998 4626	1216	6 1 18 14		
23	423.5	11 58 4.633	—268	—18	1 24 20.4		+0.61	9.998 5842		5 59 18 16		

		0 ^h Welt-Zeit							
Tag	Wochentag	Zeitgleichung Mittlere Zeit <i>minus</i> Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St.-Zt.	Halb- messer
1931									
März 23	Mo	+7 ^m 4.01 ^s	13.11	0 ^h 5 ^m 8.64 ^s	3 38.44	+ 0° 33' 28.7"	23 40.6	64.47	16' 4.64
24	Di	6 45.90	18.20	0 8 47.08	3 38.36	0 57 9.3	23 38.8	64.46	16 4.37
25	Mi	6 27.70	18.27	0 12 25.44	3 38.29	1 20 48.1	23 36.6	64.45	16 4.10
26	Do	6 9.43	18.32	0 16 3.73	3 38.23	1 44 24.7	23 34.1	64.44	16 3.83
27	Fr	5 51.11	18.35	0 19 41.96	3 38.20	2 7 58.8	23 31.3	64.44	16 3.56
28	Sa	5 32.76	18.36	0 23 20.16	3 38.19	2 31 30.1	23 27.9	64.44	16 3.29
29	St	+5 14.40	18.35	0 26 58.35	3 38.20	+ 2 54 58.0	23 24.4	64.44	16 3.02
30	Mo	4 56.05	18.33	0 30 36.55	3 38.23	3 18 22.4	23 20.4	64.45	16 2.75
31	Di	4 37.72	18.27	0 34 14.78	3 38.29	3 41 42.8	23 16.2	64.46	16 2.48
April 1	Mi	4 19.45	18.19	0 37 53.07	3 38.36	4 4 59.0	23 11.7	64.46	16 2.20
2	Do	4 1.26	18.09	0 41 31.43	3 38.46	4 28 10.7	23 6.7	64.48	16 1.93
3	Fr	3 43.17	17.97	0 45 9.89	3 38.58	4 51 17.4	23 1.6	64.50	16 1.65
4	Sa	+3 25.20	17.82	0 48 48.47	3 38.73	+ 5 14 19.0	22 56.1	64.52	16 1.37
5	St	3 7.38	17.65	0 52 27.20	3 38.91	5 37 15.1	22 50.2	64.54	16 1.10
6	Mo	2 49.73	17.46	0 56 6.11	3 39.10	6 0 5.3	22 44.2	64.57	16 0.82
7	Di	2 32.27	17.25	0 59 45.21	3 39.31	6 22 49.5	22 37.7	64.60	16 0.54
8	Mi	2 15.02	17.01	1 3 24.52	3 39.54	6 45 27.2	22 30.9	64.63	16 0.25
9	Do	1 58.01	16.76	1 7 4.06	3 39.79	7 7 58.1	22 23.8	64.66	15 59.97
10	Fr	+1 41.25	16.50	1 10 43.85	3 40.06	+ 7 30 21.9	22 16.4	64.70	15 59.69
11	Sa	1 24.75	16.21	1 14 23.91	3 40.34	7 52 38.3	22 8.5	64.74	15 59.42
12	St	1 8.54	15.91	1 18 4.25	3 40.64	8 14 46.8	22 0.3	64.78	15 59.14
13	Mo	0 52.63	15.60	1 21 44.89	3 40.96	8 36 47.1	21 51.9	64.82	15 58.86
14	Di	0 37.03	15.27	1 25 25.85	3 41.28	8 58 39.0	21 42.9	64.86	15 58.59
15	Mi	0 21.76	14.92	1 29 7.13	3 41.63	9 20 21.9	21 33.7	64.91	15 58.31
16	Do	+0 6.84	14.57	1 32 48.76	3 41.99	+ 9 41 55.6	21 24.2	64.96	15 58.04
17	Fr	-0 7.73	14.20	1 36 30.75	3 42.35	10 3 19.8	21 14.2	65.01	15 57.77
18	Sa	0 21.93	13.82	1 40 13.10	3 42.74	10 24 34.0	21 3.9	65.06	15 57.51
19	St	0 35.75	13.43	1 43 55.84	3 43.13	10 45 37.9	20 53.2	65.12	15 57.24
20	Mo	0 49.18	13.03	1 47 38.97	3 43.53	11 6 31.1	20 42.2	65.18	15 56.98
21	Di	1 2.21	12.61	1 51 22.50	3 43.94	11 27 13.3	20 30.9	65.24	15 56.73
22	Mi	-1 14.82	12.19	1 55 6.44	3 44.36	+11 47 44.2	20 19.1	65.31	15 56.47
23	Do	1 27.01	11.76	1 58 50.80	3 44.80	12 8 3.3	20 7.0	65.37	15 56.22
24	Fr	1 38.77	11.32	2 2 35.60	3 45.23	12 28 10.3	19 54.6	65.44	15 55.97
25	Sa	1 50.09	10.86	2 6 20.83	3 45.69	12 48 4.9	19 41.9	65.51	15 55.72
26	St	2 0.95	10.40	2 10 6.52	3 46.15	13 7 46.8	19 28.8	65.58	15 55.47
27	Mo	2 11.35	9.93	2 13 52.67	3 46.63	13 27 15.6	19 15.4	65.65	15 55.23
28	Di	-2 21.28	9.45	2 17 39.30	3 47.11	+13 46 31.0	19 1.8	65.72	15 54.99
29	Mi	2 30.73	8.95	2 21 26.41	3 47.61	14 5 32.8	18 47.7	65.80	15 54.75
30	Do	2 39.68	8.44	2 25 14.02	3 48.12	14 24 20.5	18 33.5	65.87	15 54.51
Mai 1	Fr	2 48.12	7.91	2 29 2.14	3 48.64	14 42 54.0	18 18.9	65.95	15 54.27
2	Sa	2 56.03	7.38	2 32 50.78	3 49.17	15 1 12.9	18 4.1	66.02	15 54.03
3	St	-3 3.41		2 36 39.95		+15 19 17.0		66.09	15 53.79

Tag	0 ^h Welt-Zeit							Aufgang	Untergang
	Julian. Zeit	Sternzeit	Nutation in AR.		Mittleres Äquinoktium 1931.0		log R	in (+50° Breite)	o ^h Länge
			langp. Gl.	kurzp. Gl.	Länge	Breite			
1931	2426		in 0.001						
März 23	423.5	11 ^h 58 ^m 4.633	—268	—18	1° 24' 20.4"	59° 30.9'	+0.61	9.998 5842 ¹²¹⁵	5 ^h 59 ^m 18 ^h 16 ^m
24	424.5	12 2 1.187	270	—18	2 23 51.3	59 28.7	+0.72	9.998 7057 ¹²¹⁴	5 57 18 18
25	425.5	12 5 57.741	271	—15	3 23 20.0	59 26.4	+0.80	9.998 8271 ¹²¹⁵	5 54 18 19
26	426.5	12 9 54.294	273	—9	4 22 46.4	59 24.1	+0.86	9.998 9486 ¹²¹⁶	5 52 18 21
27	427.5	12 13 50.848	275	—2	5 22 10.5	59 21.7	+0.89	9.999 0702 ¹²¹⁷	5 50 18 22
28	428.5	12 17 47.401	277	+5	6 21 32.2	59 19.4	+0.89	9.999 1919 ¹²²⁰	5 48 18 24
29	429.5	12 21 43.955	—278	+10	7 20 51.6	59 17.0	+0.85	9.999 3139 ¹²²⁴	5 46 18 25
30	430.5	12 25 40.509	280	+12	8 20 8.6	59 14.7	+0.78	9.999 4363 ¹²²⁹	5 44 18 27
31	431.5	12 29 37.062	282	+11	9 19 23.3	59 12.4	+0.68	9.999 5592 ¹²³⁴	5 41 18 28
April 1	432.5	12 33 33.616	285	+7	10 18 35.7	59 10.3	+0.56	9.999 6826 ¹²⁴¹	5 39 18 30
2	433.5	12 37 30.170	285	+1	11 17 46.0	59 8.2	+0.43	9.999 8067 ¹²⁴⁸	5 37 18 32
3	434.5	12 41 26.724	286	—6	12 16 54.2	59 6.1	+0.29	9.999 9315 ¹²⁵⁴	5 35 18 33
4	435.5	12 45 23.278	—288	—10	13 16 0.3	59 4.2	+0.14	0.000 0569 ¹²⁶⁰	5 33 18 35
5	436.5	12 49 19.832	289	—11	14 15 4.5	59 2.3	0.00	0.000 1829 ¹²⁶⁴	5 30 18 36
6	437.5	12 53 16.386	290	—10	15 14 6.8	59 0.5	—0.12	0.000 3093 ¹²⁶⁷	5 28 18 38
7	438.5	12 57 12.940	291	—5	16 13 7.3	58 58.7	—0.22	0.000 4360 ¹²⁶⁹	5 26 18 39
8	439.5	13 1 9.494	293	+1	17 12 6.0	58 56.9	—0.29	0.000 5629 ¹²⁶⁸	5 24 18 41
9	440.5	13 5 6.048	294	+7	18 11 2.9	58 55.2	—0.34	0.000 6897 ¹²⁶⁷	5 22 18 43
10	441.5	13 9 2.602	—295	+13	19 9 58.1	58 53.5	—0.35	0.000 8164 ¹²⁶³	5 20 18 44
11	442.5	13 12 59.157	296	+16	20 8 51.6	58 51.8	—0.34	0.000 9427 ¹²⁵⁸	5 18 18 46
12	443.5	13 16 55.711	297	+17	21 7 43.4	58 49.9	—0.29	0.001 0685 ¹²⁵²	5 16 18 47
13	444.5	13 20 52.265	298	+15	22 6 33.3	58 48.2	—0.22	0.001 1937 ¹²⁴⁵	5 14 18 49
14	445.5	13 24 48.820	299	+11	23 5 21.5	58 46.4	—0.14	0.001 3182 ¹²³⁶	5 12 18 50
15	446.5	13 28 45.374	300	+6	24 4 7.9	58 44.5	—0.03	0.001 4418 ¹²²⁸	5 10 18 52
16	447.5	13 32 41.929	—301	—1	25 2 52.4	58 42.7	+0.09	0.001 5646 ¹²¹⁷	5 8 18 54
17	448.5	13 36 38.483	302	—8	26 1 35.1	58 40.8	+0.22	0.001 6863 ¹²⁰⁶	5 5 18 55
18	449.5	13 40 35.038	302	—13	27 0 15.9	58 38.8	+0.34	0.001 8069 ¹¹⁹⁵	5 3 18 57
19	450.5	13 44 31.593	303	—17	27 58 54.7	58 36.9	+0.45	0.001 9264 ¹¹⁸³	5 1 18 58
20	451.5	13 48 28.147	304	—18	28 57 31.6	58 34.8	+0.56	0.002 0447 ¹¹⁷¹	4 59 19 0
21	452.5	13 52 24.702	304	—15	29 56 6.4	58 32.8	+0.65	0.002 1618 ¹¹⁵⁹	4 57 19 1
22	453.5	13 56 21.257	—305	—10	30 54 39.2	58 30.7	+0.72	0.002 2777 ¹¹⁴⁷	4 55 19 3
23	454.5	14 0 17.812	305	—4	31 53 9.9	58 28.5	+0.75	0.002 3924 ¹¹³⁷	4 53 19 4
24	455.5	14 4 14.367	305	+4	32 51 38.4	58 26.4	+0.76	0.002 5061 ¹¹²⁷	4 51 19 6
25	456.5	14 8 10.923	305	+9	33 50 4.8	58 24.2	+0.73	0.002 6188 ¹¹¹⁸	4 50 19 8
26	457.5	14 12 7.478	305	+12	34 48 29.0	58 22.0	+0.67	0.002 7306 ¹¹¹⁰	4 48 19 9
27	458.5	14 16 4.033	305	+12	35 46 51.0	58 19.9	+0.58	0.002 8416 ¹¹⁰³	4 46 19 11
28	459.5	14 20 0.589	—305	+8	36 45 10.9	58 17.9	+0.47	0.002 9519 ¹⁰⁹⁸	4 44 19 12
29	460.5	14 23 57.144	305	+2	37 43 28.8	58 15.8	+0.34	0.003 0617 ¹⁰⁹³	4 42 19 14
30	461.5	14 27 53.700	305	—4	38 41 44.6	58 13.9	+0.19	0.003 1710 ¹⁰⁸⁸	4 40 19 15
Mai 1	462.5	14 31 50.256	304	—10	39 39 58.5	58 12.0	+0.04	0.003 2798 ¹⁰⁸⁵	4 38 19 17
2	463.5	14 35 46.811	304	—12	40 38 10.5	58 10.2	—0.11	0.003 3883 ¹⁰⁸²	4 37 19 18
3	464.5	14 39 43.367	—304	—12	41 36 20.7		—0.24	0.003 4965	4 35 19 20

		O ^h Welt-Zeit							
Tag	Wochentag	Zeitgleichung		Scheinbare		Scheinbare		Halbe	Halb-
		Mittlere Zeit minus Wahre Zeit		Rektaszension		Deklination		Durch- gangs- Dauer St.-Zt.	messer
1931									
Mai	3	St	—3 ^m 3.41 6.84	2 ^h 36 ^m 39.95 3 ^m 49.72	+15° 19' 17.0 17' 48.9	66.09	15 53.79		
	4	Mo	3 10.25 6.28	2 40 29.67 3 50.27	15 37 5.9 17 33.6	66.17	15 53.55		
	5	Di	3 16.53 5.72	2 44 19.94 3 50.84	15 54 39.5 17 17.8	66.25	15 53.32		
	6	Mi	3 22.25 5.14	2 48 10.78 3 51.42	16 11 57.3 17 1.8	66.33	15 53.08		
	7	Do	3 27.39 4.56	2 52 2.20 3 52.00	16 28 59.1 16 45.5	66.42	15 52.85		
	8	Fr	3 31.95 3.97	2 55 54.20 3 52.58	16 45 44.6 16 28.9	66.50	15 52.62		
	9	Sa	—3 35.92 3.39	2 59 46.78 3 53.17	+17 2 13.5 16 11.9	66.58	15 52.39		
	10	St	3 39.31 2.80	3 3 39.95 3 53.75	17 18 25.4 15 54.7	66.66	15 52.17		
	11	Mo	3 42.11 2.21	3 7 33.70 3 54.35	17 34 20.1 15 37.2	66.74	15 51.95		
	12	Di	3 44.32 1.62	3 11 28.05 3 54.94	17 49 57.3 15 19.3	66.82	15 51.73		
	13	Mi	3 45.94 1.03	3 15 22.99 3 55.53	18 5 16.6 15 1.2	66.91	15 51.51		
	14	Do	3 46.97 0.44	3 19 18.52 3 56.11	18 20 17.8 14 42.7	66.99	15 51.30		
	15	Fr	—3 47.41 0.14	3 23 14.63 3 56.70	+18 35 0.5 14 24.0	67.07	15 51.09		
	16	Sa	3 47.27 0.72	3 27 11.33 3 57.27	18 49 24.5 14 4.9	67.15	15 50.89		
	17	St	3 46.55 1.28	3 31 8.60 3 57.84	19 3 29.4 13 45.5	67.23	15 50.69		
	18	Mo	3 45.27 1.84	3 35 6.44 3 58.40	19 17 14.9 13 25.9	67.32	15 50.50		
	19	Di	3 43.43 2.40	3 39 4.84 3 58.96	19 30 40.8 13 6.0	67.40	15 50.31		
	20	Mi	3 41.03 2.94	3 43 3.80 3 59.50	19 43 46.8 12 45.8	67.48	15 50.12		
	21	Do	—3 38.09 3.47	3 47 3.30 4 0.03	+19 56 32.6 12 25.3	67.56	15 49.94		
	22	Fr	3 34.62 3.99	3 51 3.33 4 0.55	20 8 57.9 12 4.6	67.63	15 49.76		
	23	Sa	3 30.63 4.51	3 55 3.88 4 1.05	20 21 2.5 11 43.6	67.71	15 49.59		
	24	St	3 26.12 5.00	3 59 4.93 4 1.56	20 32 46.1 11 22.4	67.78	15 49.42		
	25	Mo	3 21.12 5.49	4 3 6.49 4 2.05	20 44 8.5 11 1.0	67.85	15 49.26		
	26	Di	3 15.63 5.97	4 7 8.54 4 2.53	20 55 9.5 10 39.3	67.92	15 49.10		
	27	Mi	—3 9.66 6.43	4 11 11.07 4 2.99	+21 5 48.8 10 17.4	67.99	15 48.94		
	28	Do	3 3.23 6.89	4 15 14.06 4 3.45	21 16 6.2 9 55.4	68.06	15 48.78		
	29	Fr	2 56.34 7.35	4 19 17.51 4 3.90	21 26 1.6 9 33.2	68.13	15 48.63		
	30	Sa	2 48.99 7.78	4 23 21.41 4 4.34	21 35 34.8 9 10.7	68.19	15 48.48		
	31	St	2 41.21 8.22	4 27 25.75 4 4.78	21 44 45.5 8 48.1	68.25	15 48.33		
Juni	1	Mo	2 32.99 8.64	4 31 30.53 4 5.20	21 53 33.6 8 25.4	68.31	15 48.19		
	2	Di	—2 24.35 9.04	4 35 35.73 4 5.60	+22 1 59.0 8 2.4	68.37	15 48.04		
	3	Mi	2 15.31 9.45	4 39 41.33 4 6.00	22 10 1.4 7 39.3	68.43	15 47.90		
	4	Do	2 5.86 9.83	4 43 47.33 4 6.39	22 17 40.7 7 16.0	68.48	15 47.77		
	5	Fr	1 56.03 10.19	4 47 53.72 4 6.75	22 24 56.7 6 52.6	68.53	15 47.63		
	6	Sa	1 45.84 10.54	4 52 0.47 4 7.10	22 31 49.3 6 29.0	68.58	15 47.50		
	7	St	1 35.30 10.88	4 56 7.57 4 7.44	22 38 18.3 6 5.2	68.63	15 47.38		
	8	Mo	—1 24.42 11.19	5 0 15.01 4 7.75	+22 44 23.5 5 41.4	68.67	15 47.25		
	9	Di	1 13.23 11.49	5 4 22.76 4 8.04	22 50 4.9 5 17.3	68.71	15 47.13		
	10	Mi	1 1.74 11.75	5 8 30.80 4 8.32	22 55 22.2 4 53.2	68.74	15 47.02		
	11	Do	0 49.99 12.01	5 12 39.12 4 8.56	23 0 15.4 4 28.9	68.77	15 46.91		
	12	Fr	0 37.98 12.23	5 16 47.68 4 8.79	23 4 44.3 4 4.6	68.80	15 46.80		
	13	Sa	—0 25.75	5 20 56.47	+23 8 48.9	68.83	15 46.70		

		O ^h Welt-Zeit							Auf- gang		Unter- gang	
Tag		Julian. Zeit	Sternzeit	Nutation in AR.		Mittleres Äquinoktium 1931.0		log R		in (+50° Breite (^h ^m ^s Länge		Unter- gang (^h ^m ^s Länge
				langp. Gl.	kurzp. Gl.	Länge	Breite					
1931		2426			in o.cor							
Mai	3	464.5	14 ^h 39 ^m 43.367	—304—12	41° 36' 20.7	58° 8.6	—0.24	0.003 4965	1077	4 ^h 35 ^m 19 ^s 20		
	4	465.5	14 43 39.923	303—8	42 34 29.3	58 7.0	—0.35	0.003 6042	1072	4 33 19 21		
	5	466.5	14 47 36.479	302—2	43 32 36.3	58 5.5	—0.42	0.003 7114	1066	4 31 19 23		
	6	467.5	14 51 33.036	301+5	44 30 41.8	58 4.1	—0.47	0.003 8180	1058	4 30 19 24		
	7	468.5	14 55 29.592	300+11	45 28 45.9	58 2.6	—0.50	0.003 9238	1049	4 28 19 26		
	8	469.5	14 59 26.148	299+15	46 26 48.5	58 1.3	—0.49	0.004 0287	1038	4 26 19 28		
	9	470.5	15 3 22.705	—298+17	47 24 49.8	57 59.9	—0.46	0.004 1325	1027	4 25 19 29		
	10	471.5	15 7 19.261	297+16	48 22 49.7	57 58.6	—0.40	0.004 2352	1013	4 23 19 30		
	11	472.5	15 11 15.818	296+12	49 20 48.3	57 57.3	—0.32	0.004 3365	998	4 22 19 32		
	12	473.5	15 15 12.374	295+7	50 18 45.6	57 56.0	—0.22	0.004 4363	983	4 20 19 33		
	13	474.5	15 19 8.931	293+1	51 16 41.6	57 54.6	—0.10	0.004 5346	967	4 18 19 35		
	14	475.5	15 23 5.488	292—6	52 14 36.2	57 53.3	+0.01	0.004 6313	949	4 17 19 36		
	15	476.5	15 27 2.045	—290—12	53 12 29.5	57 52.0	+0.13	0.004 7262	930	4 16 19 38		
	16	477.5	15 30 58.602	289—15	54 10 21.5	57 50.6	+0.25	0.004 8192	910	4 14 19 39		
	17	478.5	15 34 55.159	287—17	55 8 12.1	57 49.2	+0.35	0.004 9102	890	4 13 19 40		
	18	479.5	15 38 51.716	285—15	56 6 1.3	57 47.7	+0.44	0.004 9992	870	4 11 19 42		
	19	480.5	15 42 48.273	283—11	57 3 49.0	57 46.3	+0.50	0.005 0862	849	4 10 19 43		
	20	481.5	15 46 44.831	281—5	58 1 35.3	57 44.8	+0.55	0.005 1711	829	4 9 19 44		
	21	482.5	15 50 41.388	—279+2	58 59 20.1	57 43.3	+0.56	0.005 2540	809	4 8 19 46		
	22	483.5	15 54 37.945	277+9	59 57 3.4	57 41.7	+0.54	0.005 3349	789	4 6 19 47		
	23	484.5	15 58 34.503	275+12	60 54 45.1	57 40.2	+0.49	0.005 4138	771	4 5 19 48		
	24	485.5	16 2 31.060	273+13	61 52 25.3	57 38.6	+0.42	0.005 4909	754	4 4 19 50		
	25	486.5	16 6 27.618	271+10	62 50 3.9	57 37.0	+0.31	0.005 5663	738	4 3 19 51		
	26	487.5	16 10 24.176	268+4	63 47 40.9	57 35.6	+0.18	0.005 6401	724	4 2 19 52		
27	488.5	16 14 20.733	—266—2	64 45 16.5	57 34.0	+0.03	0.005 7125	710	4 1 19 53			
28	489.5	16 18 17.291	263—9	65 42 50.5	57 32.7	—0.11	0.005 7835	697	4 0 19 55			
29	490.5	16 22 13.849	261—12	66 40 23.2	57 31.4	—0.25	0.005 8532	685	3 59 19 56			
30	491.5	16 26 10.407	258—13	67 37 54.6	57 30.2	—0.39	0.005 9217	675	3 58 19 57			
31	492.5	16 30 6.965	256—10	68 35 24.8	57 29.1	—0.50	0.005 9892	663	3 57 19 58			
Juni	1	493.5	16 34 3.523	253—5	69 32 53.9	57 28.0	—0.58	0.006 0555	652	3 56 19 59		
	2	494.5	16 38 0.081	—250+2	70 30 21.9	57 27.1	—0.64	0.006 1207	641	3 56 20 0		
	3	495.5	16 41 56.640	247+9	71 27 49.0	57 26.3	—0.67	0.006 1848	627	3 55 20 1		
	4	496.5	16 45 53.198	244+13	72 25 15.3	57 25.5	—0.68	0.006 2475	614	3 54 20 2		
	5	497.5	16 49 49.756	241+17	73 22 40.8	57 24.8	—0.65	0.006 3089	599	3 54 20 3		
	6	498.5	16 53 46.314	239+17	74 20 5.6	57 24.2	—0.59	0.006 3688	583	3 53 20 4		
	7	499.5	16 57 42.873	236+13	75 17 29.8	57 23.5	—0.51	0.006 4271	565	3 53 20 5		
	8	500.5	17 1 39.431	—233+9	76 14 53.3	57 22.9	—0.42	0.006 4836	547	3 52 20 6		
	9	501.5	17 5 35.990	229+2	77 12 16.2	57 22.4	—0.32	0.006 5383	528	3 52 20 6		
	10	502.5	17 9 32.548	226—4	78 9 38.6	57 21.9	—0.21	0.006 5911	507	3 51 20 7		
	11	503.5	17 13 29.107	223—10	79 7 0.5	57 21.4	—0.09	0.006 6418	486	3 51 20 8		
	12	504.5	17 17 25.665	220—15	80 4 21.9	57 20.8	+0.03	0.006 6904	463	3 51 20 8		
	13	505.5	17 21 22.223	—217—17	81 1 42.7		+0.13	0.006 7367		3 50 20 9		

		0 ^h Welt-Zeit									
Tag	Wochentag	Zeitgleichung		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St.-Zt.	Halb- messer		
		Mittlere Zeit minus Wahre Zeit									
1931											
Juni											
13	Sa	— 0 ^m 25.75	12.44	5 ^h 20 ^m 56.47	4 ^m 9.00	+ 23 [°] 8' 48.9	3 40.0	68.83	15 46.70		
14	St	0 13.31	12.61	5 25 54.7	4 9.17	23 12 28.9	3 15.5	68.86	15 46.60		
15	Mo	— 0 0.70	12.76	5 29 14.64	4 9.32	23 15 44.4	2 50.9	68.89	15 46.51		
16	Di	+ 0 12.06	12.89	5 33 23.96	4 9.44	23 18 35.3	2 26.2	68.91	15 46.43		
17	Mi	0 24.95	12.98	5 37 33.40	4 9.54	23 21 1.5	2 1.4	68.92	15 46.35		
18	Do	0 37.93	13.05	5 41 42.94	4 9.61	23 23 2.9	1 36.6	68.93	15 46.28		
19	Fr	+ 0 50.98	13.08	5 45 52.55	4 9.64	+ 23 24 39.5	1 11.8	68.94	15 46.21		
20	Sa	1 4.06	13.09	5 50 2.19	4 9.65	23 25 51.3	0 46.9	68.94	15 46.15		
21	St	1 17.15	13.08	5 54 11.84	4 9.64	23 26 38.2	0 22.1	68.94	15 46.09		
22	Mo	1 30.23	13.03	5 58 21.48	4 9.59	23 27 0.3	0 2.8	68.94	15 46.04		
23	Di	1 43.26	12.97	6 2 31.07	4 9.53	23 26 57.5	0 27.5	68.93	15 45.99		
24	Mi	1 56.23	12.88	6 6 40.60	4 9.44	23 26 30.0	0 52.3	68.92	15 45.94		
25	Do	+ 2 9.11	12.77	6 10 50.04	4 9.33	+ 23 25 37.7	1 17.1	68.91	15 45.91		
26	Fr	2 21.88	12.64	6 14 59.37	4 9.20	23 24 20.6	1 41.7	68.90	15 45.87		
27	Sa	2 34.52	12.49	6 19 8.57	4 9.04	23 22 38.9	2 6.4	68.89	15 45.84		
28	St	2 47.01	12.32	6 23 17.61	4 8.88	23 20 32.5	2 30.9	68.87	15 45.81		
29	Mo	2 59.33	12.13	6 27 26.49	4 8.69	23 18 1.6	2 55.4	68.84	15 45.78		
30	Di	3 11.46	11.93	6 31 35.18	4 8.49	23 15 6.2	3 19.8	68.82	15 45.76		
Juli											
1	Mi	+ 3 23.39	11.71	6 35 43.67	4 8.26	+ 23 11 46.4	3 44.1	68.79	15 45.74		
2	Do	3 35.10	11.46	6 39 51.93	4 8.02	23 8 2.3	4 8.4	68.75	15 45.73		
3	Fr	3 46.56	11.20	6 43 59.95	4 7.77	23 3 53.9	4 32.5	68.71	15 45.71		
4	Sa	3 57.76	10.93	6 48 7.72	4 7.48	22 59 21.4	4 56.5	68.67	15 45.70		
5	St	4 8.69	10.63	6 52 15.20	4 7.19	22 54 24.9	5 20.5	68.63	15 45.70		
6	Mo	4 19.32	10.32	6 56 22.39	4 6.87	22 49 4.4	5 44.3	68.59	15 45.70		
7	Di	+ 4 29.64	9.98	7 0 29.26	4 6.54	+ 22 43 20.1	6 8.0	68.55	15 45.70		
8	Mi	4 39.62	9.63	7 4 35.80	4 6.19	22 37 12.1	6 31.6	68.49	15 45.71		
9	Do	4 49.25	9.26	7 8 41.99	4 5.82	22 30 40.5	6 54.9	68.44	15 45.72		
10	Fr	4 58.51	8.87	7 12 47.81	4 5.43	22 23 45.6	7 18.2	68.38	15 45.73		
11	Sa	5 7.38	8.46	7 16 53.24	4 5.02	22 16 27.4	7 41.3	68.32	15 45.75		
12	St	5 15.84	8.04	7 20 58.26	4 4.60	22 8 46.1	8 4.2	68.26	15 45.78		
13	Mo	+ 5 23.88	7.60	7 25 2.86	4 4.15	+ 22 0 41.9	8 26.9	68.20	15 45.81		
14	Di	5 31.48	7.13	7 29 7.01	4 3.69	21 52 15.0	8 49.4	68.14	15 45.85		
15	Mi	5 38.61	6.64	7 33 10.70	4 3.21	21 43 25.6	9 11.8	68.07	15 45.89		
16	Do	5 45.25	6.15	7 37 13.91	4 2.70	21 34 13.8	9 33.8	68.00	15 45.94		
17	Fr	5 51.40	5.63	7 41 16.61	4 2.18	21 24 40.0	9 55.7	67.92	15 45.99		
18	Sa	5 57.03	5.09	7 45 18.79	4 1.65	21 14 44.3	10 17.4	67.85	15 46.05		
19	St	+ 6 2.12	4.54	7 49 20.44	4 1.10	+ 21 4 26.9	10 38.7	67.78	15 46.11		
20	Mo	6 6.66	3.97	7 53 21.54	4 0.53	20 53 48.2	10 59.9	67.70	15 46.18		
21	Di	6 10.63	3.40	7 57 22.07	3 59.96	20 42 48.3	11 20.7	67.62	15 46.26		
22	Mi	6 14.03	2.82	8 1 22.03	3 59.38	20 31 27.6	11 41.3	67.54	15 46.34		
23	Do	6 16.85	2.23	8 5 21.41	3 58.78	20 19 46.3	12 1.7	67.46	15 46.42		
24	Fr	+ 6 19.08		8 9 20.19		+ 20 7 44.6		67.39	15 46.51		

0 ^h Welt-Zeit										Auf- gang	Unter- gang
Tag	Julian. Zeit	Sternzeit	Nutation in AR.		Mittleres Äquinoktium 1931.0		log R	in { +5° Breite o ^b Länge			
			langp. Gl.	kurzp. Gl.	Länge	Breite					
1931	2426		in 0.001								
Juni 13	505.5	17 ^h 21 ^m 22.223	—217	—17	81° 1' 42.7"	57° 20.3'	+0.13	0.006 7367	439	3 ^h 50 ^m 20 ^s 9	
14	506.5	17 25 18.782	214	—17	81 59 3.0	57 19.8	+0.23	0.006 7806	415	3 50 20 10	
15	507.5	17 29 15.341	210	—13	82 56 22.8	57 19.2	+0.30	0.006 8221	390	3 50 20 10	
16	508.5	17 33 11.899	207	—7	83 53 42.0	57 18.6	+0.34	0.006 8611	363	3 50 20 11	
17	509.5	17 37 8.458	204	0	84 51 0.6	57 18.0	+0.35	0.006 8974	338	3 50 20 11	
18	510.5	17 41 5.017	200	+7	85 48 18.6	57 17.4	+0.34	0.006 9312	313	3 50 20 12	
19	511.5	17 45 1.576	—197	+12	86 45 36.0	57 16.6	+0.31	0.006 9625	288	3 50 20 12	
20	512.5	17 48 58.134	194	+14	87 42 52.6	57 16.0	+0.24	0.006 9913	264	3 50 20 12	
21	513.5	17 52 54.693	190	+12	88 40 8.6	57 15.2	+0.14	0.007 0177	240	3 50 20 12	
22	514.5	17 56 51.252	187	+7	89 37 23.8	57 14.5	+0.02	0.007 0417	220	3 50 20 13	
23	515.5	18 0 47.810	184	+1	90 34 38.3	57 13.8	—0.12	0.007 0637	199	3 51 20 13	
24	516.5	18 4 44.369	181	—6	91 31 52.1	57 13.2	—0.26	0.007 0836	181	3 51 20 13	
25	517.5	18 8 40.928	—177	—11	92 29 5.3	57 12.6	—0.40	0.007 1017	163	3 51 20 13	
26	518.5	18 12 37.486	174	—13	93 26 17.9	57 12.1	—0.53	0.007 1180	147	3 52 20 13	
27	519.5	18 16 34.045	170	—12	94 23 30.0	57 11.6	—0.64	0.007 1327	131	3 52 20 13	
28	520.5	18 20 30.604	167	—7	95 20 41.6	57 11.3	—0.73	0.007 1458	117	3 52 20 13	
29	521.5	18 24 27.162	164	—1	96 17 52.9	57 11.0	—0.80	0.007 1575	103	3 53 20 13	
30	522.5	18 28 23.721	161	+6	97 15 3.9	57 10.9	—0.83	0.007 1678	88	3 53 20 13	
Juli 1	523.5	18 32 20.280	—157	+12	98 12 14.8	57 10.8	—0.83	0.007 1766	73	3 54 20 13	
2	524.5	18 36 16.838	154	+15	99 9 25.6	57 10.9	—0.80	0.007 1839	58	3 55 20 12	
3	525.5	18 40 13.397	151	+16	100 6 36.5	57 11.0	—0.75	0.007 1897	42	3 55 20 12	
4	526.5	18 44 9.955	148	+15	101 3 47.5	57 11.1	—0.67	0.007 1939	26	3 56 20 12	
5	527.5	18 48 6.513	145	+10	102 0 58.6	57 11.3	—0.58	0.007 1965	8	3 57 20 11	
6	528.5	18 52 3.072	142	+4	102 58 9.9	57 11.6	—0.48	0.007 1973	11	3 58 20 11	
7	529.5	18 55 59.630	—139	—2	103 55 21.5	57 12.0	—0.37	0.007 1962	30	3 58 20 10	
8	530.5	18 59 56.188	136	—9	104 52 33.5	57 12.3	—0.25	0.007 1932	51	3 59 20 10	
9	531.5	19 3 52.747	133	—13	105 49 45.8	57 12.7	—0.13	0.007 1881	71	4 0 20 9	
10	532.5	19 7 49.305	130	—17	106 46 58.5	57 13.2	—0.03	0.007 1810	94	4 1 20 9	
11	533.5	19 11 45.863	127	—17	107 44 11.7	57 13.6	+0.07	0.007 1716	118	4 2 20 8	
12	534.5	19 15 42.422	124	—15	108 41 25.3	57 14.0	+0.15	0.007 1598	142	4 3 20 7	
13	535.5	19 19 38.980	—121	—10	109 38 39.3	57 14.4	+0.20	0.007 1456	167	4 4 20 6	
14	536.5	19 23 35.538	119	—2	110 35 53.7	57 14.8	+0.22	0.007 1289	193	4 5 20 6	
15	537.5	19 27 32.096	116	+4	111 33 8.5	57 15.2	+0.21	0.007 1096	220	4 6 20 5	
16	538.5	19 31 28.654	113	+10	112 30 23.7	57 15.6	+0.18	0.007 0876	247	4 7 20 4	
17	539.5	19 35 25.212	111	+13	113 27 39.3	57 15.8	+0.11	0.007 0629	273	4 8 20 3	
18	540.5	19 39 21.770	108	+13	114 24 55.1	57 16.0	+0.02	0.007 0356	298	4 9 20 2	
19	541.5	19 43 18.328	—106	+10	115 22 11.1	57 16.3	—0.10	0.007 0058	322	4 10 20 1	
20	542.5	19 47 14.886	103	+4	116 19 27.4	57 16.5	—0.23	0.006 9736	346	4 12 20 0	
21	543.5	19 51 11.443	101	—3	117 16 43.9	57 16.8	—0.38	0.006 9390	367	4 13 19 59	
22	544.5	19 55 8.001	99	—9	118 14 0.7	57 17.0	—0.52	0.006 9023	388	4 14 19 58	
23	545.5	19 59 4.558	97	—12	119 11 17.7	57 17.2	—0.64	0.006 8635	405	4 15 19 56	
24	546.5	20 3 1.116	—94	—12	120 8 34.9		—0.75	0.006 8230		4 17 19 55	

		Oh Welt-Zeit									
Tag		Wochentag	Zeitgleichung		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St.-Zt.	Halb- messer	
			Mittlere Zeit minus Wahre Zeit								
1931											
Juli	24	Fr	+6 ^m 19.08	1.62	8 ^h 9 ^m 20.19	3 ^m 58.19	+20° 7' 44.6	12' 21.8	67.39	15' 46.51	
	25	Sa	6 20.70	1.03	8 13 18.38	3 57.58	19 55 22.8	12 41.6	67.31	15 46.60	
	26	St	6 21.73	0.43	8 17 15.96	3 56.99	19 42 41.2	13 1.2	67.23	15 46.70	
	27	Mo	6 22.16	0.18	8 21 12.95	3 56.38	19 29 40.0	13 20.5	67.14	15 46.80	
	28	Di	6 21.98	0.78	8 25 9.33	3 55.77	19 16 19.5	13 39.6	67.06	15 46.90	
	29	Mi	6 21.20	1.38	8 29 5.10	3 55.18	19 2 39.9	13 58.4	66.97	15 47.01	
	30	Do	+6 19.82	1.98	8 33 0.28	3 54.57	+18 48 41.5	14 16.9	66.88	15 47.11	
	31	Fr	6 17.84	2.58	8 36 54.85	3 53.97	18 34 24.6	14 35.2	66.80	15 47.22	
	Aug.	1	Sa	6 15.26	3.18	8 40 48.82	3 53.38	18 19 49.4	14 53.3	66.71	15 47.34
		2	St	6 12.08	3.78	8 44 42.20	3 52.78	18 4 56.1	15 11.0	66.62	15 47.45
3		Mo	6 8.30	4.37	8 48 34.98	3 52.19	17 49 45.1	15 28.5	66.54	15 47.57	
4		Di	6 3.93	4.95	8 52 27.17	3 51.61	17 34 16.6	15 45.7	66.45	15 47.70	
5		Mi	+5 58.98	5.54	8 56 18.78	3 51.01	+17 18 30.9	16 2.6	66.36	15 47.82	
6		Do	5 53.44	6.12	9 0 9.79	3 50.44	17 2 28.3	16 19.2	66.28	15 47.95	
7		Fr	5 47.32	6.70	9 4 0.23	3 49.86	16 46 9.1	16 35.6	66.19	15 48.09	
8		Sa	5 40.62	7.28	9 7 50.09	3 49.28	16 29 33.5	16 51.6	66.10	15 48.23	
9		St	5 33.34	7.84	9 11 39.37	3 48.71	16 12 41.9	17 7.4	66.02	15 48.37	
10		Mo	5 25.50	8.41	9 15 28.08	3 48.15	15 55 34.5	17 22.9	65.93	15 48.51	
	11	Di	+5 17.09	8.97	9 19 16.23	3 47.58	+15 38 11.6	17 38.0	65.85	15 48.66	
	12	Mi	5 8.12	9.53	9 23 3.81	3 47.03	15 20 33.6	17 52.8	65.77	15 48.82	
	13	Do	4 58.59	10.09	9 26 50.84	3 46.47	15 2 40.8	18 7.3	65.69	15 48.98	
	14	Fr	4 48.50	10.64	9 30 37.31	3 45.91	14 44 33.5	18 21.4	65.60	15 49.14	
	15	Sa	4 37.86	11.19	9 34 23.22	3 45.37	14 26 12.1	18 35.2	65.52	15 49.31	
	16	St	4 26.67	11.73	9 38 8.59	3 44.82	14 7 36.9	18 48.7	65.44	15 49.49	
	17	Mo	+4 14.94	12.27	9 41 53.41	3 44.28	+13 48 48.2	19 1.8	65.36	15 49.67	
	18	Di	4 2.67	12.80	9 45 37.69	3 43.76	13 29 46.4	19 14.5	65.29	15 49.86	
	19	Mi	3 49.87	13.32	9 49 21.45	3 43.23	13 10 31.9	19 27.0	65.21	15 50.05	
	20	Do	3 36.55	13.83	9 53 4.68	3 42.73	12 51 4.9	19 39.0	65.14	15 50.24	
	21	Fr	3 22.72	14.33	9 56 47.41	3 42.22	12 31 25.9	19 50.9	65.07	15 50.43	
	22	Sa	3 8.39	14.81	10 0 29.63	3 41.75	12 11 35.0	20 2.3	65.00	15 50.63	
	23	St	+2 53.58	15.28	10 4 11.38	3 41.28	+11 51 32.7	20 13.4	64.94	15 50.84	
	24	Mo	2 38.30	15.73	10 7 52.66	3 40.82	11 31 19.3	20 24.3	64.87	15 51.04	
	25	Di	2 22.57	16.17	10 11 33.48	3 40.39	11 10 55.0	20 34.9	64.81	15 51.25	
	26	Mi	2 6.40	16.58	10 15 13.87	3 39.97	10 50 20.1	20 45.1	64.75	15 51.46	
	27	Do	1 49.82	16.98	10 18 53.84	3 39.58	10 29 35.0	20 55.1	64.69	15 51.67	
	28	Fr	1 32.84	17.36	10 22 33.42	3 39.19	10 8 39.9	21 4.7	64.63	15 51.88	
	29	Sa	+1 15.48	17.72	10 26 12.61	3 38.83	+ 9 47 35.2	21 14.0	64.58	15 52.10	
	30	St	0 57.76	18.07	10 29 51.44	3 38.49	9 26 21.2	21 23.1	64.52	15 52.31	
Sept.	31	Mo	0 39.69	18.39	10 33 29.93	3 38.16	9 4 58.1	21 31.9	64.46	15 52.53	
	1	Di	0 21.30	18.70	10 37 8.09	3 37.85	8 43 26.2	21 40.4	64.41	15 52.75	
	2	Mi	+0 2.60	18.99	10 40 45.94	3 37.57	8 21 45.8	21 48.5	64.37	15 52.97	
	3	Do	-0 16.39		10 44 23.51		+ 7 59 57.3		64.33	15 53.19	

Tag	0 ^h Welt-Zeit							Auf- gang in { +50° Breite 0 ^h Länge	Unter- gang			
	Julian. Zeit	Sternzeit	Nutation in AR.		Mittleres Äquinoktium 1931.0		log R					
			langp. Gl.	kurzp. Gl.	Länge	Breite						
1931	2426		in 0.001									
Juli	24	546.5	20 ^h 3 ^m 1.116	—94	—12	120° 8' 34.9	57' 17.5	—0.75	0.006 8230	423	4 ^h 17 ^m 19 ^s 55 ^m	
	25	547.5	20 6 57.673	92	— 8	121 5 52.4	57 18.0	—0.84	0.006 7807	438	4 18 19 54	
	26	548.5	20 10 54.230	91	— 2	122 3 10.4	57 18.5	—0.91	0.006 7369	453	4 19 19 53	
	27	549.5	20 14 50.787	89	+ 4	123 0 28.9	57 19.0	—0.94	0.006 6916	468	4 20 19 51	
	28	550.5	20 18 47.345	87	+10	123 57 47.9	57 19.7	—0.94	0.006 6448	481	4 22 19 50	
	29	551.5	20 22 43.902	85	+15	124 55 7.6	57 20.4	—0.90	0.006 5967	494	4 23 19 49	
	30	552.5	20 26 40.459	—83	+17	125 52 28.0	57 21.2	—0.85	0.006 5473	507	4 25 19 47	
	31	553.5	20 30 37.016	82	+15	126 49 49.2	57 22.2	—0.77	0.006 4966	521	4 26 19 46	
	Aug.	1	554.5	20 34 33.573	80	+12	127 47 11.4	57 23.1	—0.68	0.006 4445	535	4 27 19 44
		2	555.5	20 38 30.129	79	+ 6	128 44 34.5	57 24.2	—0.57	0.006 3910	549	4 29 19 43
		3	556.5	20 42 26.686	78	0	129 41 58.7	57 25.3	—0.45	0.006 3361	563	4 30 19 41
		4	557.5	20 46 23.242	77	— 7	130 39 24.0	57 26.4	—0.33	0.006 2798	579	4 32 19 40
		5	558.5	20 50 19.799	—75	—13	131 36 50.4	57 27.6	—0.21	0.006 2219	596	4 33 19 38
		6	559.5	20 54 16.356	74	—17	132 34 18.0	57 29.0	—0.10	0.006 1623	612	4 34 19 36
		7	560.5	20 58 12.912	73	—18	133 31 47.0	57 30.2	0.00	0.006 1011	630	4 36 19 35
		8	561.5	21 2 9.469	72	—17	134 29 17.2	57 31.5	+0.08	0.006 0381	649	4 37 19 33
9		562.5	21 6 6.025	71	—12	135 26 48.7	57 32.9	+0.13	0.005 9732	669	4 39 19 31	
10		563.5	21 10 2.581	70	— 6	136 24 21.6	57 34.2	+0.16	0.005 9063	690	4 40 19 29	
11		564.5	21 13 59.137	—70	+ 1	137 21 55.8	57 35.6	+0.16	0.005 8373	711	4 42 19 28	
12		565.5	21 17 55.693	69	+ 8	138 19 31.4	57 36.9	+0.13	0.005 7662	734	4 43 19 26	
13		566.5	21 21 52.249	69	+12	139 17 8.3	57 38.1	+0.08	0.005 6928	758	4 45 19 24	
14		567.5	21 25 48.805	68	+13	140 14 46.4	57 39.3	—0.01	0.005 6170	780	4 46 19 22	
15		568.5	21 29 45.360	68	+10	141 12 25.7	57 40.5	—0.14	0.005 5390	803	4 48 19 20	
16		569.5	21 33 41.915	68	+ 6	142 10 6.2	57 41.6	—0.27	0.005 4587	824	4 49 19 18	
	17	570.5	21 37 38.471	—68	— 1	143 7 47.8	57 42.7	—0.41	0.005 3763	846	4 51 19 17	
	18	571.5	21 41 35.026	68	— 7	144 5 30.5	57 43.8	—0.55	0.005 2917	864	4 52 19 15	
	19	572.5	21 45 31.582	68	—10	145 3 14.3	57 44.8	—0.68	0.005 2053	882	4 54 19 13	
	20	573.5	21 49 28.137	68	—12	146 0 59.1	57 45.8	—0.79	0.005 1171	897	4 55 19 11	
	21	574.5	21 53 24.692	68	— 9	146 58 44.9	57 47.0	—0.88	0.005 0274	912	4 57 19 9	
	22	575.5	21 57 21.248	68	— 4	147 56 31.9	57 48.1	—0.94	0.004 9362	924	4 58 19 7	
	23	576.5	22 1 17.803	—68	+ 3	148 54 20.0	57 49.3	—0.98	0.004 8438	935	5 0 19 5	
	24	577.5	22 5 14.358	68	+10	149 52 9.3	57 50.5	—0.98	0.004 7503	946	5 1 19 3	
	25	578.5	22 9 10.913	69	+14	150 49 59.8	57 51.9	—0.95	0.004 6557	954	5 3 19 1	
	26	579.5	22 13 7.467	70	+17	151 47 51.7	57 53.3	—0.90	0.004 5603	963	5 4 18 59	
	27	580.5	22 17 4.022	70	+17	152 45 45.0	57 54.8	—0.82	0.004 4640	971	5 6 18 57	
	28	581.5	22 21 0.577	71	+13	153 43 39.8	57 56.4	—0.73	0.004 3669	979	5 7 18 55	
	29	582.5	22 24 57.131	—72	+ 9	154 41 36.2	57 57.9	—0.61	0.004 2690	986	5 8 18 53	
	30	583.5	22 28 53.686	72	+ 2	155 39 34.1	57 59.7	—0.49	0.004 1704	994	5 10 18 51	
	31	584.5	22 32 50.241	73	— 4	156 37 33.8	58 1.4	—0.37	0.004 0710	1001	5 12 18 48	
	Sept.	1	585.5	22 36 46.795	74	—10	157 35 35.2	58 3.2	—0.24	0.003 9709	1010	5 13 18 46
2		586.5	22 40 43.350	75	—15	158 33 38.4	58 5.1	—0.12	0.003 8699	1018	5 14 18 44	
3		587.5	22 44 39.904	—76	—18	159 31 43.5		—0.01	0.003 7681		5 16 18 42	

Tag	Wochentag	O ^h Welt-Zeit					
		Zeitgleichung Mittlere Zeit minus Wahre Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer St.-Zt.	Halb- messer	
1931							
Sept.	3 Do	— 0 ^m 16.39 ^s 19.26	10 ^h 44 ^m 23.51 ^s 3 37.30	+7 ^m 59 ^s 57.3 ^s 21 56.3	64.33	15 53.19	
	4 Fr	0 35.65 19.51	10 48 0.81 3 37.04	7 38 1.0 22 3.8	64.29	15 53.42	
	5 Sa	0 55.16 19.74	10 51 37.85 3 36.81	7 15 57.2 22 11.1	64.25	15 53.65	
	6 St	1 14.90 19.96	10 55 14.66 3 36.59	6 53 46.1 22 18.0	64.21	15 53.88	
	7 Mo	1 34.86 20.16	10 58 51.25 3 36.40	6 31 28.1 22 24.6	64.18	15 54.11	
	8 Di	1 55.02 20.33	11 2 27.65 3 36.22	6 9 3.5 22 30.8	64.15	15 54.34	
	9 Mi	— 2 15.35 20.50	11 6 3.87 3 36.06	+5 46 32.7 22 36.7	64.13	15 54.58	
	10 Do	2 35.85 20.64	11 9 39.93 3 35.91	5 23 56.0 22 42.3	64.10	15 54.82	
	11 Fr	2 56.49 20.78	11 13 15.84 3 35.77	5 1 13.7 22 47.4	64.07	15 55.07	
	12 Sa	3 17.27 20.90	11 16 51.61 3 35.66	4 38 26.3 22 52.3	64.05	15 55.32	
	13 St	3 38.17 21.01	11 20 27.27 3 35.55	4 15 34.0 22 56.8	64.04	15 55.57	
	14 Mo	3 59.18 21.09	11 24 2.82 3 35.46	3 52 37.2 23 0.8	64.03	15 55.82	
	15 Di	— 4 20.27 21.16	11 27 38.28 3 35.39	+3 29 36.4 23 4.6	64.02	15 56.08	
	16 Mi	4 41.43 21.22	11 31 13.67 3 35.33	3 6 31.8 23 8.0	64.01	15 56.34	
	17 Do	5 2.65 21.26	11 34 49.00 3 35.29	2 43 23.8 23 10.9	64.01	15 56.61	
	18 Fr	5 23.91 21.28	11 38 24.29 3 35.28	2 20 12.9 23 13.6	64.01	15 56.87	
	19 Sa	5 45.19 21.28	11 41 59.57 3 35.28	1 56 59.3 23 16.0	64.01	15 57.14	
	20 St	6 6.47 21.25	11 45 34.85 3 35.30	1 33 43.3 23 18.0	64.01	15 57.41	
	21 Mo	— 6 27.72 21.21	11 49 10.15 3 35.34	+1 10 25.3 23 19.6	64.02	15 57.68	
	22 Di	6 48.93 21.15	11 52 45.49 3 35.41	0 47 5.7 23 21.0	64.03	15 57.95	
	23 Mi	7 10.08 21.05	11 56 20.90 3 35.50	0 23 44.7 23 22.1	64.04	15 58.23	
	24 Do	7 31.13 20.94	11 59 56.40 3 35.62	+0 0 22.6 23 22.8	64.06	15 58.50	
	25 Fr	7 52.07 20.80	12 3 32.02 3 35.75	—0 23 0.2 23 23.2	64.08	15 58.77	
	26 Sa	8 12.87 20.65	12 7 7.77 3 35.91	0 46 23.4 23 23.2	64.10	15 59.04	
	27 St	— 8 33.52 20.46	12 10 43.68 3 36.09	—1 9 46.6 23 23.1	64.13	15 59.31	
	28 Mo	8 53.98 20.25	12 14 19.77 3 36.30	1 33 9.7 23 22.5	64.16	15 59.59	
	29 Di	9 14.23 20.03	12 17 56.07 3 36.53	1 56 32.2 23 21.6	64.19	15 59.86	
	30 Mi	9 34.26 19.77	12 21 32.60 3 36.78	2 19 53.8 23 20.4	64.22	16 0.13	
Okt.	1 Do	9 54.03 19.50	12 25 9.38 3 37.05	2 43 14.2 23 18.8	64.26	16 0.40	
	2 Fr	10 13.53 19.20	12 28 46.43 3 37.36	3 6 33.0 23 17.0	64.31	16 0.67	
	3 Sa	—10 32.73 18.88	12 32 23.79 3 37.67	—3 29 50.0 23 14.8	64.35	16 0.94	
	4 St	10 51.61 18.54	12 36 1.46 3 38.01	3 53 4.8 23 12.2	64.39	16 1.21	
	5 Mo	11 10.15 18.18	12 39 39.47 3 38.38	4 16 17.0 23 9.3	64.44	16 1.48	
	6 Di	11 28.33 17.79	12 43 17.85 3 38.76	4 39 26.3 23 6.0	64.49	16 1.75	
	7 Mi	11 46.12 17.40	12 46 56.61 3 39.16	5 2 32.3 23 2.4	64.55	16 2.02	
	8 Do	12 3.52 16.97	12 50 35.77 3 39.58	5 25 34.7 22 58.4	64.61	16 2.29	
	9 Fr	—12 20.49 16.53	12 54 15.35 3 40.02	—5 48 33.1 22 53.9	64.67	16 2.57	
	10 Sa	12 37.02 16.09	12 57 55.37 3 40.47	6 11 27.0 22 49.1	64.73	16 2.84	
	11 St	12 53.11 15.62	13 1 35.84 3 40.93	6 34 16.1 22 43.8	64.80	16 3.11	
	12 Mo	13 8.73 15.13	13 5 16.77 3 41.42	6 56 59.9 22 38.2	64.87	16 3.39	
	13 Di	13 23.86 14.65	13 8 58.19 3 41.92	7 19 38.1 22 32.1	64.95	16 3.67	
	14 Mi	—13 38.51	13 12 40.11	—7 42 10.2	65.02	16 3.95	

Tag	0 ^h Welt-Zeit							Aufgang in { +5° o ^b Länge	Unter- gang Breite	
	Julian. Zeit	Sternzeit	Nutation in AR.		Mittleres Äquinoktium 1931.0		log R			
			langp. Gl.	kurzp. Gl.	Länge	Breite				
1931	2426		in 0.001							
Sept.	3	587.5	22 ^h 44 ^m 39.904	— 76 — 18	159° 31' 43.5"	58° 7.0'	— 0.01	0.003 7681 ₁₀₂₇	5 ^h 16 ^m 18 ^h 42 ^m	
	4	588.5	22 48 36.458	77 — 17	160 29 50.5	58 9.0	+ 0.08	0.003 6654 ₁₀₃₇	5 18 18 40	
	5	589.5	22 52 33.012	78 — 14	161 27 59.5	58 10.9	+ 0.15	0.003 5617 ₁₀₄₇	5 19 18 38	
	6	590.5	22 56 29.566	80 — 9	162 26 10.4	58 13.0	+ 0.20	0.003 4570 ₁₀₅₈	5 20 18 36	
	7	591.5	23 0 26.120	81 — 2	163 24 23.4	58 15.0	+ 0.20	0.003 3512 ₁₀₇₁	5 22 18 34	
	8	592.5	23 4 22.674	82 + 5	164 22 38.4	58 17.1	+ 0.18	0.003 2441 ₁₀₈₄	5 24 18 31	
	9	593.5	23 8 19.228	— 84 + 10	165 20 55.5	58 19.0	+ 0.13	0.003 1357 ₁₀₉₈	5 25 18 29	
	10	594.5	23 12 15.782	85 + 12	166 19 14.5	58 21.0	+ 0.05	0.003 0259 ₁₁₁₄	5 26 18 27	
	11	595.5	23 16 12.336	86 + 10	167 17 35.5	58 23.0	— 0.06	0.002 9145 ₁₁₂₉	5 28 18 25	
	12	596.5	23 20 8.890	88 + 6	168 15 58.5	58 24.8	— 0.18	0.002 8016 ₁₁₄₅	5 29 18 23	
	13	597.5	23 24 5.444	89 + 1	169 14 23.3	58 26.6	— 0.31	0.002 6871 ₁₁₆₀	5 31 18 21	
	14	598.5	23 28 1.998	91 — 6	170 12 49.9	58 28.3	— 0.45	0.002 5711 ₁₁₇₄	5 32 18 18	
	15	599.5	23 31 58.552	— 92 — 10	171 11 18.2	58 30.0	— 0.59	0.002 4537 ₁₁₈₇	5 34 18 16	
	16	600.5	23 35 55.106	94 — 12	172 9 48.2	58 31.6	— 0.71	0.002 3350 ₁₁₉₉	5 35 18 14	
	17	601.5	23 39 51.659	96 — 10	173 8 19.8	58 33.2	— 0.81	0.002 2151 ₁₂₀₈	5 37 18 12	
	18	602.5	23 43 48.213	97 — 5	174 6 53.0	58 34.8	— 0.88	0.002 0943 ₁₂₁₇	5 38 18 10	
	19	603.5	23 47 44.767	99 + 1	175 5 27.8	58 36.5	— 0.92	0.001 9726 ₁₂₂₂	5 40 18 7	
	20	604.5	23 51 41.320	101 + 9	176 4 4.3	58 38.1	— 0.93	0.001 8504 ₁₂₂₈	5 41 18 5	
	Okt.	21	605.5	23 55 37.874	— 102 + 14	177 2 42.4	58 39.8	— 0.91	0.001 7276 ₁₂₃₀	5 43 18 3
		22	606.5	23 59 34.428	104 + 17	178 1 22.2	58 41.6	— 0.86	0.001 6046 ₁₂₃₂	5 44 18 1
23		607.5	0 3 30.981	106 + 18	179 0 3.8	58 43.3	— 0.79	0.001 4814 ₁₂₃₃	5 46 17 58	
24		608.5	0 7 27.535	108 + 15	179 58 47.1	58 45.2	— 0.70	0.001 3581 ₁₂₃₄	5 47 17 56	
25		609.5	0 11 24.089	109 + 11	180 57 32.3	58 47.1	— 0.58	0.001 2347 ₁₂₃₂	5 49 17 54	
26		610.5	0 15 20.642	111 + 5	181 56 19.4	58 49.1	— 0.45	0.001 1115 ₁₂₃₂	5 50 17 52	
27		611.5	0 19 17.196	— 113 — 2	182 55 8.5	58 51.1	— 0.31	0.000 9883 ₁₂₂₉	5 52 17 50	
28		612.5	0 23 13.750	114 — 9	183 53 59.6	58 53.1	— 0.17	0.000 8654 ₁₂₂₈	5 54 17 47	
29		613.5	0 27 10.303	116 — 13	184 52 52.7	58 55.3	— 0.04	0.000 7426 ₁₂₂₆	5 55 17 45	
30		614.5	0 31 6.857	118 — 17	185 51 48.0	58 57.4	+ 0.08	0.000 6200 ₁₂₂₄	5 57 17 43	
1		615.5	0 35 3.411	119 — 17	186 50 45.4	58 59.6	+ 0.18	0.000 4976 ₁₂₂₂	5 58 17 41	
2		616.5	0 38 59.964	121 — 15	187 49 45.0	59 1.9	+ 0.26	0.000 3754 ₁₂₂₁	6 0 17 39	
3		617.5	0 42 56.518	— 123 — 10	188 48 46.9	59 4.2	+ 0.31	0.000 2533 ₁₂₂₁	6 1 17 36	
4		618.5	0 46 53.072	124 — 4	189 47 51.1	59 6.5	+ 0.33	0.000 1312 ₁₂₂₀	6 3 17 34	
5		619.5	0 50 49.626	125 + 2	190 46 57.6	59 8.8	+ 0.32	0.000 0092 ₁₂₂₂	6 4 17 32	
6		620.5	0 54 46.180	127 + 8	191 46 6.4	59 11.2	+ 0.28	9.999 8870 ₁₂₂₃	6 6 17 30	
7		621.5	0 58 42.733	129 + 11	192 45 17.6	59 13.5	+ 0.22	9.999 7647 ₁₂₂₆	6 7 17 28	
8		622.5	1 2 39.287	130 + 10	193 44 31.1	59 15.8	+ 0.13	9.999 6421 ₁₂₃₀	6 9 17 26	
9		623.5	1 6 35.841	— 132 + 7	194 43 46.9	59 18.0	+ 0.02	9.999 5191 ₁₂₃₅	6 11 17 24	
10		624.5	1 10 32.395	133 + 1	195 43 4.9	59 20.2	— 0.11	9.999 3956 ₁₂₄₀	6 12 17 22	
11	625.5	1 14 28.950	134 — 5	196 42 25.1	59 22.3	— 0.25	9.999 2716 ₁₂₄₅	6 14 17 19		
12	626.5	1 18 25.504	135 — 10	197 41 47.4	59 24.3	— 0.39	9.999 1471 ₁₂₅₁	6 15 17 17		
13	627.5	1 22 22.058	136 — 13	198 41 11.7	59 26.3	— 0.51	9.999 0220 ₁₂₅₅	6 17 17 15		
14	628.5	1 26 18.612	— 138 — 12	199 40 38.0	— 0.61	9.998 8965	6 18 17 13			

Tag	Wochentag	0 ^h Welt-Zeit					
		Zeitgleichung Mittlere Zeit minus Wahre Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer St.-Zt.	Halb- messer	
1931							
Okt. 14	Mi	—13 ^m 38.51 ^s 14.13	13 ^h 12 ^m 40.11 ^s 3 42.42	— 7° 42' 10.2" 22 25.7	65.02	16'	3.95
15	Do	13 52.64 13.61	13 16 22.53 3 42.94	8 4 35.9 22 18.8	65.09	16	4.23
16	Fr	14 6.25 13.07	13 20 5.47 3 43.49	8 26 54.7 22 11.5	65.17	16	4.51
17	Sa	14 19.32 12.51	13 23 48.96 3 44.04	8 49 6.2 22 3.8	65.26	16	4.79
18	St	14 31.83 11.94	13 27 33.00 3 44.62	9 11 10.0 21 55.8	65.34	16	5.06
19	Mo	14 43.77 11.34	13 31 17.62 3 45.21	9 33 5.8 21 47.4	65.43	16	5.34
20	Di	—14 55.11 10.74	13 35 2.83 3 45.81	— 9 54 53.2 21 38.6	65.52	16	5.62
21	Mi	15 5.85 10.11	13 38 48.64 3 46.44	10 16 31.8 21 29.5	65.62	16	5.90
22	Do	15 15.96 9.47	13 42 35.08 3 47.09	10 38 1.3 21 19.9	65.71	16	6.17
23	Fr	15 25.43 8.81	13 46 22.17 3 47.75	10 59 21.2 21 9.9	65.81	16	6.44
24	Sa	15 34.24 8.13	13 50 9.92 3 48.43	11 20 31.1 20 59.7	65.91	16	6.71
25	St	15 42.37 7.43	13 53 58.35 3 49.12	11 41 30.8 20 49.0	66.01	16	6.98
26	Mo	—15 49.80 6.72	13 57 47.47 3 49.84	—12 2 19.8 20 38.0	66.11	16	7.25
27	Di	15 56.52 5.99	14 1 37.31 3 50.56	12 22 57.8 20 26.6	66.22	16	7.51
28	Mi	16 2.51 5.24	14 5 27.87 3 51.31	12 43 24.4 20 14.8	66.32	16	7.77
29	Do	16 7.75 4.48	14 9 19.18 3 52.08	13 3 39.2 20 2.6	66.43	16	8.03
30	Fr	16 12.23 3.70	14 13 11.26 3 52.85	13 23 41.8 19 50.0	66.53	16	8.28
31	Sa	16 15.93 2.92	14 17 4.11 3 53.64	13 43 31.8 19 37.0	66.64	16	8.53
Nov. 1	St	—16 18.85 2.11	14 20 57.75 3 54.44	—14 3 8.8 19 23.7	66.76	16	8.78
2	Mo	16 20.96 1.30	14 24 52.19 3 55.26	14 22 32.5 19 10.0	66.87	16	9.03
3	Di	16 22.26 0.48	14 28 47.45 3 56.08	14 41 42.5 18 55.8	66.98	16	9.27
4	Mi	16 22.74 0.36	14 32 43.53 3 56.92	15 0 38.3 18 41.2	67.10	16	9.51
5	Do	16 22.38 1.21	14 36 40.45 3 57.76	15 19 19.5 18 26.2	67.22	16	9.75
6	Fr	16 21.17 2.05	14 40 38.21 3 58.60	15 37 45.7 18 10.8	67.33	16	9.99
7	Sa	—16 19.12 2.89	14 44 36.81 3 59.45	—15 55 56.5 17 55.0	67.45	16	10.22
8	St	16 16.23 3.75	14 48 36.26 4 0.30	16 13 51.5 17 38.7	67.57	16	10.46
9	Mo	16 12.48 4.59	14 52 36.56 4 1.15	16 31 30.2 17 21.9	67.69	16	10.69
10	Di	16 7.89 5.44	14 56 37.71 4 2.00	16 48 52.1 17 4.8	67.81	16	10.92
11	Mi	16 2.45 6.29	15 0 39.71 4 2.85	17 5 56.9 16 47.3	67.93	16	11.16
12	Do	15 56.16 7.13	15 4 42.56 4 3.68	17 22 44.2 16 29.2	68.05	16	11.39
13	Fr	—15 49.03 7.96	15 8 46.24 4 4.52	—17 39 13.4 16 10.8	68.17	16	11.61
14	Sa	15 41.07 8.80	15 12 50.76 4 5.36	17 55 24.2 15 51.9	68.29	16	11.84
15	St	15 32.27 9.63	15 16 56.12 4 6.18	18 11 16.1 15 32.8	68.41	16	12.06
16	Mo	15 22.64 10.45	15 21 2.30 4 7.01	18 26 48.9 15 13.1	68.53	16	12.28
17	Di	15 12.19 11.28	15 25 9.31 4 7.84	18 42 2.0 14 53.7	68.64	16	12.50
18	Mi	15 0.91 12.09	15 29 17.15 4 8.65	18 56 55.2 14 32.9	68.76	16	12.72
19	Do	—14 48.82 12.91	15 33 25.80 4 9.47	—19 11 28.1 14 12.1	68.87	16	12.93
20	Fr	14 35.91 13.71	15 37 35.27 4 10.27	19 25 40.2 13 51.1	68.99	16	13.14
21	Sa	14 22.20 14.52	15 41 45.54 4 11.07	19 39 31.3 13 29.6	69.10	16	13.34
22	St	14 7.68 15.31	15 45 56.61 4 11.87	19 53 0.9 13 7.9	69.22	16	13.54
23	Mo	13 52.37 16.09	15 50 8.48 4 12.65	20 6 8.8 12 45.7	69.33	16	13.74
24	Di	—13 36.28	15 54 21.13	—20 18 54.5	69.44	16	13.93

Tag	0 ^h Welt-Zeit							Aufgang in { +5° o ^b Länge	Unter- gang Breite o ^b Länge
	Julian. Zeit	Sternzeit	Nutation in AR.		Mittleres Äquinoktium 1931.0		log R		
			langp. Gl.	kurzp. Gl.	Länge	Breite			
1931	2426		in o.oor						
Okt. 14	628.5	1 ^h 26 ^m 18.612	—138	—12	199° 40' 38.0	59° 28.1	—0.61	9.998 8965 ₁₂₅₈	6 ^h 18 ^m 17 ^h 13 ^m
15	629.5	1 30 15.166	139	—7	200 40 6.1	59 29.8	—0.68	9.998 7707 ₁₂₆₀	6 20 17 11
16	630.5	1 34 11.720	140	—1	201 39 35.9	59 31.7	—0.73	9.998 6447 ₁₂₅₉	6 22 17 9
17	631.5	1 38 8.275	141	+6	202 39 7.6	59 33.4	—0.75	9.998 5188 ₁₂₅₈	6 23 17 7
18	632.5	1 42 4.830	141	+13	203 38 41.0	59 35.1	—0.74	9.998 3930 ₁₂₅₄	6 25 17 5
19	633.5	1 46 1.384	142	+17	204 38 16.1	59 36.8	—0.70	9.998 2676 ₁₂₄₈	6 26 17 3
20	634.5	1 49 57.939	—143	+18	205 37 52.9	59 38.6	—0.63	9.998 1428 ₁₂₄₂	6 28 17 1
21	635.5	1 53 54.493	144	+17	206 37 31.5	59 40.4	—0.53	9.998 0186 ₁₂₃₄	6 30 16 59
22	636.5	1 57 51.048	144	+13	207 37 11.9	59 42.1	—0.42	9.997 8952 ₁₂₂₄	6 31 16 57
23	637.5	2 1 47.603	145	+7	208 36 54.0	59 44.0	—0.30	9.997 7728 ₁₂₁₅	6 33 16 55
24	638.5	2 5 44.158	146	+1	209 36 38.0	59 45.8	—0.17	9.997 6513 ₁₂₀₃	6 35 16 53
25	639.5	2 9 40.713	146	—6	210 36 23.8	59 47.7	—0.04	9.997 5310 ₁₁₉₂	6 36 16 51
26	640.5	2 13 37.268	—146	—12	211 36 11.5	59 49.7	+0.10	9.997 4118 ₁₁₇₉	6 38 16 50
27	641.5	2 17 33.823	146	—15	212 36 1.2	59 51.6	+0.22	9.997 2939 ₁₁₆₇	6 40 16 48
28	642.5	2 21 30.379	146	—17	213 35 52.8	59 53.6	+0.32	9.997 1772 ₁₁₅₃	6 41 16 46
29	643.5	2 25 26.934	146	—15	214 35 46.4	59 55.7	+0.41	9.997 0619 ₁₁₄₀	6 43 16 44
30	644.5	2 29 23.489	146	—11	215 35 42.1	59 57.7	+0.47	9.996 9479 ₁₁₂₇	6 44 16 42
31	645.5	2 33 20.045	146	—6	216 35 39.8	59 59.9	+0.50	9.996 8352 ₁₁₁₄	6 46 16 40
Nov. 1	646.5	2 37 16.601	—146	+1	217 35 39.7	60 2.0	+0.51	9.996 7238 ₁₁₀₃	6 48 16 39
2	647.5	2 41 13.157	145	+7	218 35 41.7	60 4.1	+0.49	9.996 6135 ₁₀₉₁	6 50 16 37
3	648.5	2 45 9.712	145	+10	219 35 45.8	60 6.3	+0.43	9.996 5044 ₁₀₈₀	6 51 16 35
4	649.5	2 49 6.268	144	+11	220 35 52.1	60 8.4	+0.34	9.996 3964 ₁₀₇₂	6 53 16 34
5	650.5	2 53 2.824	144	+8	221 36 0.5	60 10.6	+0.24	9.996 2892 ₁₀₆₃	6 54 16 32
6	651.5	2 56 59.380	143	+2	222 36 11.1	60 12.6	+0.12	9.996 1829 ₁₀₅₆	6 56 16 30
7	652.5	3 0 55.936	—142	—4	223 36 23.7	60 14.6	0.00	9.996 0773 ₁₀₄₉	6 58 16 29
8	653.5	3 4 52.493	141	—10	224 36 38.3	60 16.5	—0.13	9.995 9724 ₁₀₄₄	7 0 16 27
9	654.5	3 8 49.049	140	—13	225 36 54.8	60 18.4	—0.26	9.995 8680 ₁₀₃₉	7 1 16 26
10	655.5	3 12 45.605	139	—13	226 37 13.2	60 20.1	—0.36	9.995 7641 ₁₀₃₄	7 3 16 24
11	656.5	3 16 42.162	138	—10	227 37 33.3	60 21.7	—0.45	9.995 6607 ₁₀₂₇	7 4 16 23
12	657.5	3 20 38.719	136	—4	228 37 55.0	60 23.2	—0.51	9.995 5580 ₁₀₂₀	7 6 16 21
13	658.5	3 24 35.276	—135	+3	229 38 18.2	60 24.7	—0.54	9.995 4560 ₁₀₁₂	7 8 16 20
14	659.5	3 28 31.833	133	+10	230 38 42.9	60 26.1	—0.53	9.995 3548 ₁₀₀₁	7 9 16 19
15	660.5	3 32 28.390	132	+16	231 39 9.0	60 27.5	—0.49	9.995 2547 ₉₉₀	7 11 16 17
16	661.5	3 36 24.947	130	+18	232 39 36.5	60 28.8	—0.43	9.995 1557 ₉₇₇	7 13 16 16
17	662.5	3 40 21.504	128	+18	233 40 5.3	60 30.1	—0.34	9.995 0580 ₉₆₃	7 14 16 15
18	663.5	3 44 18.061	126	+15	234 40 35.4	60 31.4	—0.23	9.994 9617 ₉₄₆	7 16 16 14
19	664.5	3 48 14.619	—124	+9	235 41 6.8	60 32.6	—0.11	9.994 8671 ₉₂₉	7 18 16 12
20	665.5	3 52 11.176	122	+3	236 41 39.4	60 33.9	+0.02	9.994 7742 ₉₂₁	7 19 16 11
21	666.5	3 56 7.733	120	—4	237 42 13.3	60 35.2	+0.15	9.994 6831 ₈₉₁	7 21 16 10
22	667.5	4 0 4.291	118	—10	238 42 48.5	60 36.5	+0.29	9.994 5940 ₈₇₁	7 22 16 9
23	668.5	4 4 0.849	115	—13	239 43 25.0	60 37.8	+0.41	9.994 5069 ₈₅₀	7 24 16 8
24	669.5	4 7 57.407	—113	—16	240 44 2.8		+0.52	9.994 4219	7 25 16 7

Tag	Wochentag	0 ^h Welt-Zeit					
		Zeitgleichung Mittlere Zeit <i>minus</i> Wahre Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer St.-Zt.	Halb- messer	
1931							
Nov. 24	Di	— 13 ^m 36. ^s 28 16.87	15 54 21.13 ^m 4 13.43 ^s	— 20° 18' 54.5" 12 23.3	69.44	16' 13.93	
25	Mi	13 19.41 17.64	15 58 34.56 4 14.20	20 31 17.8 12 0.5	69.55	16 14.11	
26	Do	13 1.77 18.40	16 2 48.76 4 14.95	20 43 18.3 11 37.5	69.65	16 14.30	
27	Fr	12 43.37 19.15	16 7 3.71 4 15.70	20 54 55.8 11 14.0	69.75	16 14.47	
28	Sa	12 24.22 19.88	16 11 19.41 4 16.44	21 6 9.8 10 50.3	69.85	16 14.64	
29	St	12 4.34 20.60	16 15 35.85 4 17.16	21 17 0.1 10 26.2	69.95	16 14.81	
30	Mo	— 11 43.74 21.30	16 19 53.01 4 17.87	— 21 27 26.3 10 1.9	70.04	16 14.97	
Dez. 1	Di	11 22.44 22.00	16 24 10.88 4 18.55	21 37 28.2 9 37.2	70.14	16 15.12	
2	Mi	11 0.44 22.67	16 28 29.43 4 19.23	21 47 5.4 9 12.3	70.23	16 15.27	
3	Do	10 37.77 23.31	16 32 48.66 4 19.87	21 56 17.7 8 47.0	70.31	16 15.42	
4	Fr	10 14.46 23.94	16 37 8.53 4 20.50	22 5 4.7 8 21.5	70.40	16 15.56	
5	Sa	9 50.52 24.55	16 41 29.03 4 21.10	22 13 26.2 7 55.7	70.48	16 15.70	
6	St	— 9 25.97 25.12	16 45 50.13 4 21.68	— 22 21 21.9 7 29.6	70.56	16 15.84	
7	Mo	9 0.85 25.66	16 50 11.81 4 22.22	22 28 51.5 7 3.3	70.63	16 15.97	
8	Di	8 35.19 26.17	16 54 34.03 4 22.73	22 35 54.8 6 36.7	70.70	16 16.09	
9	Mi	8 9.02 26.65	16 58 56.76 4 23.21	22 42 31.5 6 10.0	70.77	16 16.22	
10	Do	7 42.37 27.10	17 3 19.97 4 23.66	22 48 41.5 5 42.9	70.83	16 16.34	
11	Fr	7 15.27 27.51	17 7 43.63 4 24.06	22 54 24.4 5 15.8	70.89	16 16.46	
12	Sa	— 6 47.76 27.88	17 12 7.69 4 24.44	— 22 59 40.2 4 48.4	70.95	16 16.58	
13	St	6 19.88 28.23	17 16 32.13 4 24.79	23 4 28.6 4 20.8	71.00	16 16.69	
14	Mo	5 51.65 28.53	17 20 56.92 4 25.10	23 8 49.4 3 53.2	71.04	16 16.80	
15	Di	5 23.12 28.81	17 25 22.02 4 25.37	23 12 42.6 3 25.5	71.08	16 16.90	
16	Mi	4 54.31 29.06	17 29 47.39 4 25.61	23 16 8.1 2 57.5	71.12	16 17.00	
17	Do	4 25.25 29.26	17 34 13.00 4 25.83	23 19 5.6 2 29.5	71.15	16 17.10	
18	Fr	— 3 55.99 29.44	17 38 38.83 4 26.00	— 23 21 35.1 2 1.5	71.18	16 17.19	
19	Sa	3 26.55 29.59	17 43 4.83 4 26.14	23 23 36.6 1 33.4	71.21	16 17.28	
20	St	2 56.96 29.70	17 47 30.97 4 26.26	23 25 10.0 1 5.2	71.23	16 17.36	
21	Mo	2 27.26 29.77	17 51 57.23 4 26.33	23 26 15.2 0 37.0	71.24	16 17.43	
22	Di	1 57.49 29.83	17 56 23.56 4 26.39	23 26 52.2 0 8.8	71.25	16 17.50	
23	Mi	1 27.66 29.84	18 0 49.95 4 26.40	23 27 1.0 0 19.5	71.26	16 17.56	
24	Do	— 0 57.82 29.83	18 5 16.35 4 26.39	— 23 26 41.5 0 47.7	71.26	16 17.62	
25	Fr	— 0 27.99 29.79	18 9 42.74 4 26.35	23 25 53.8 1 15.9	71.25	16 17.67	
26	Sa	+ 0 1.80 29.72	18 14 9.09 4 26.27	23 24 37.9 1 44.1	71.24	16 17.71	
27	St	0 31.52 29.61	18 18 35.36 4 26.17	23 22 53.8 2 12.3	71.23	16 17.75	
28	Mo	1 1.13 29.48	18 23 1.53 4 26.04	23 20 41.5 2 40.3	71.22	16 17.79	
29	Di	1 30.61 29.32	18 27 27.57 4 25.88	23 18 1.2 3 8.4	71.20	16 17.81	
30	Mi	+ 1 59.93 29.13	18 31 53.45 4 25.69	— 23 14 52.8 3 36.3	71.17	16 17.83	
31	Do	2 29.06 28.91	18 36 19.14 4 25.47	23 11 16.5 4 4.3	71.13	16 17.84	
32	Fr	+ 2 57.97	18 40 44.61	— 23 7 12.2	71.09	16 17.85	

Tag	O ^h Welt-Zeit							Auf- gang in { +5° Breite	Unter- gang " " Länge	
	Julian. Zeit	Sternzeit	Nutation in AR.		Mittleres Äquinoktium 1931.0		log R			
			langp. Gl.	kurzp. Gl.	Länge	Breite				
1931	2426			in 0.001						
Nov.	24	669.5	4 ^h 7 ^m 57.407	—113	—16	240° 44' 2.8	60° 39.1	+0.52	9.994 4219 ₈₂₈	7 ^h 25 ^m 16 ^s 7 ^m
	25	670.5	4 11 53.965	110	—15	241 44 41.9	60 40.5	+0.60	9.994 3391 ₈₀₅	7 27 16 6
	26	671.5	4 15 50.523	108	—12	242 45 22.4	60 41.9	+0.68	9.994 2586 ₇₈₂	7 28 16 6
	27	672.5	4 19 47.081	105	—6	243 46 4.3	60 43.3	+0.72	9.994 1804 ₇₅₉	7 30 16 5
	28	673.5	4 23 43.639	102	0	244 46 47.6	60 44.7	+0.72	9.994 1045 ₇₃₇	7 31 16 4
	29	674.5	4 27 40.197	99	+6	245 47 32.3	60 46.1	+0.70	9.994 0308 ₇₁₄	7 33 16 3
	30	675.5	4 31 36.756	—96	+10	246 48 18.4	60 47.6	+0.65	9.993 9594 ₆₉₂	7 34 16 2
	1	676.5	4 35 33.314	93	+12	247 49 6.0	60 49.1	+0.57	9.993 8902 ₆₇₁	7 35 16 2
	2	677.5	4 39 29.872	90	+10	248 49 55.1	60 50.6	+0.48	9.993 8231 ₆₅₂	7 37 16 1
	3	678.5	4 43 26.431	87	+5	249 50 45.7	60 52.1	+0.36	9.993 7579 ₆₃₃	7 38 16 1
Dez.	4	679.5	4 47 22.989	84	—2	250 51 37.8	60 53.4	+0.23	9.993 6946 ₆₁₆	7 39 16 0
	5	680.5	4 51 19.548	81	—8	251 52 31.2	60 54.8	+0.10	9.993 6330 ₆₀₀	7 41 16 0
	6	681.5	4 55 16.107	—77	—13	252 53 26.0	60 56.0	—0.02	9.993 5730 ₅₈₅	7 42 15 59
	7	682.5	4 59 12.665	74	—15	253 54 22.0	60 57.2	—0.13	9.993 5145 ₅₇₁	7 43 15 59
	8	683.5	5 3 9.224	70	—13	254 55 19.2	60 58.3	—0.22	9.993 4574 ₅₅₈	7 44 15 59
	9	684.5	5 7 5.783	67	—7	255 56 17.5	60 59.3	—0.28	9.993 4016 ₅₄₃	7 45 15 58
	10	685.5	5 11 2.342	63	0	256 57 16.8	61 0.1	—0.31	9.993 3473 ₅₃₀	7 46 15 58
	11	686.5	5 14 58.901	60	+7	257 58 16.9	61 0.9	—0.31	9.993 2943 ₅₁₆	7 47 15 58
	12	687.5	5 18 55.460	—56	+13	258 59 17.8	61 1.5	—0.28	9.993 2427 ₅₀₀	7 48 15 58
	13	688.5	5 22 52.019	53	+17	260 0 19.3	61 2.1	—0.22	9.993 1927 ₄₈₃	7 49 15 58
	14	689.5	5 26 48.578	49	+18	261 1 21.4	61 2.7	—0.14	9.993 1444 ₄₆₅	7 50 15 58
	15	690.5	5 30 45.137	45	+16	262 2 24.1	61 3.1	—0.04	9.993 0979 ₄₄₆	7 51 15 58
	16	691.5	5 34 41.696	41	+11	263 3 27.2	61 3.6	+0.08	9.993 0533 ₄₂₆	7 52 15 58
	17	692.5	5 38 38.255	37	+5	264 4 30.8	61 3.9	+0.20	9.993 0107 ₄₀₄	7 53 15 59
	18	693.5	5 42 34.814	—34	—2	265 5 34.7	61 4.3	+0.33	9.992 9703 ₃₈₂	7 54 15 59
	19	694.5	5 46 31.373	30	—8	266 6 39.0	61 4.6	+0.45	9.992 9321 ₃₅₈	7 54 15 59
	20	695.5	5 50 27.933	26	—13	267 7 43.6	61 5.0	+0.57	9.992 8963 ₃₃₃	7 55 16 0
	21	696.5	5 54 24.492	22	—15	268 8 48.6	61 5.3	+0.68	9.992 8630 ₃₀₇	7 56 16 0
	22	697.5	5 58 21.052	18	—15	269 9 53.9	61 5.6	+0.77	9.992 8323 ₂₈₁	7 56 16 0
	23	698.5	6 2 17.611	14	—13	270 10 59.5	61 5.9	+0.84	9.992 8042 ₂₅₃	7 57 16 1
	24	699.5	6 6 14.170	—10	—8	271 12 5.4	61 6.2	+0.88	9.992 7789 ₂₂₅	7 57 16 2
	25	700.5	6 10 10.729	7	—2	272 13 11.6	61 6.6	+0.89	9.992 7564 ₁₉₇	7 57 16 2
26	701.5	6 14 7.288	—3	+5	273 14 18.2	61 7.0	+0.87	9.992 7367 ₁₆₉	7 58 16 3	
27	702.5	6 18 3.847	+1	+10	274 15 25.2	61 7.4	+0.82	9.992 7198 ₁₄₀	7 58 16 4	
28	703.5	6 22 0.407	5	+12	275 16 32.6	61 7.9	+0.75	9.992 7058 ₁₁₃	7 58 16 4	
29	704.5	6 25 56.966	9	+12	276 17 40.5	61 8.3	+0.65	9.992 6945 ₈₆	7 59 16 5	
30	705.5	6 29 53.525	+13	+8	277 18 48.8	61 8.7	+0.52	9.992 6859 ₆₁	7 59 16 6	
31	706.5	6 33 50.084	16	+2	278 19 57.5	61 9.2	+0.38	9.992 6798 ₃₆	7 59 16 7	
32	707.5	6 37 46.643	+20	—6	279 21 6.7		+0.26	9.992 6762	7 59 16 8	

Welt-Zeit		Mittleres Äquinoktium 1931.0					
		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Jan.	0 ^h	+0.147 0158 8 6381	-14216	-0.891 9405 1 2437	-1962	-0.386 8672 5398	- 853
	0 12	0.155 6539 8 6257		0.890 6968 1 3126		0.386 3274 5696	
	1 0	0.164 2796 8 6127	14176	0.889 3842 1 3815	2194	0.385 7578 5995	954
	1 12	0.172 8923 8 5990		0.888 0027 1 4503		0.385 1583 6293	
	2 0	0.181 4913 8 5847	14131	0.886 5524 1 5189	2425	0.384 5290 6590	1054
	2 12	0.190 0760 8 5699		0.885 0335 1 5875		0.383 8700 6887	
	3 0	+0.198 6459 8 5543	-14082	-0.883 4460 1 6559	-2654	-0.383 1813 7184	-1154
	3 12	0.207 2002 8 5381		0.881 7901 1 7241		0.382 4629 7479	
	4 0	0.215 7383 8 5214	14028	0.880 0660 1 7922	2883	0.381 7150 7774	1254
	4 12	0.224 2597 8 5041		0.878 2738 1 8602		0.380 9376 8069	
	5 0	0.232 7638 8 4861	13970	0.876 4136 1 9280	3111	0.380 1307 8362	1353
	5 12	0.241 2499 8 4676		0.874 4856 1 9957		0.379 2945 8656	
	6 0	+0.249 7175 8 4483	-13907	-0.872 4899 2 0632	-3339	-0.378 4289 8948	-1452
	6 12	0.258 1658 8 4286		0.870 4267 2 1306		0.377 5341 9240	
	7 0	0.266 5944 8 4082	13840	0.868 2961 2 1979	3565	0.376 6101 9532	1550
	7 12	0.275 0026 8 3872		0.866 0982 2 2652		0.375 6569 9823	
	8 0	0.283 3898 8 3655	13769	0.863 8330 2 3322	3790	0.374 6746 10113	1648
	8 12	0.291 7553 8 3433		0.861 5008 2 3991		0.373 6633 10403	
	9 0	+0.300 0986 8 3203	-13694	-0.859 1017 2 4659	-4014	-0.372 6230 10693	-1746
	9 12	0.308 4189 8 2968		0.856 6358 2 5325		0.371 5537 10981	
	10 0	0.316 7157 8 2726	13615	0.854 1033 2 5990	4237	0.370 4556 11269	1843
	10 12	0.324 9883 8 2478		0.851 5043 2 6652		0.369 3287 11557	
	11 0	0.333 2361 8 2223	13531	0.848 8391 2 7313	4459	0.368 1730 11843	1939
	11 12	0.341 4584 8 1961		0.846 1078 2 7974		0.366 9887 12130	
	12 0	+0.349 6545 8 1693	-13443	-0.843 3104 2 8632	-4679	-0.365 7757 12415	-2035
	12 12	0.357 8238 8 1418		0.840 4472 2 9287		0.364 5342 12700	
	13 0	0.365 9656 8 1136	13350	0.837 5185 2 9940	4898	0.363 2642 12984	2130
	13 12	0.374 0792 8 0848		0.834 5245 3 0593		0.361 9658 13267	
	14 0	0.382 1640 8 0553	13254	0.831 4652 3 1242	5115	0.360 6391 13549	2224
	14 12	0.390 2193 8 0252		0.828 3410 3 1889		0.359 2842 13829	
	15 0	+0.398 2445 7 9943	-13154	-0.825 1521 3 2534	-5331	-0.357 9013 14109	-2318
	15 12	0.406 2388 7 9629		0.821 8987 3 3177		0.356 4904 14388	
	16 0	0.414 2017 7 9308	13049	0.818 5810 3 3816	5545	0.355 0516 14666	2411
	16 12	0.422 1325 7 8980		0.815 1994 3 4453		0.353 5850 14943	
	17 0	0.430 0305 7 8645	12941	0.811 7541 3 5087	5757	0.352 0907 15218	2504
	17 12	0.437 8950 7 8303		0.808 2454 3 5718		0.350 5689 15492	
	18 0	+0.445 7253 7 7956	-12828	-0.804 6736 3 6346	-5968	-0.349 0197 15765	-2595
	18 12	0.453 5209 7 7603		0.801 0390 3 6972		0.347 4432 16037	
	19 0	0.461 2812 7 7243	12712	0.797 3418 3 7594	6176	0.345 8395 16307	2686
	19 12	0.469 0055 7 6876		0.793 5824 3 8212		0.344 2088 16575	
	20 0	0.476 6931 7 6503	-12591	-0.789 7612 3 8828	-6383	-0.342 5513 16842	-2776
	20 12	+0.484 3434		-0.785 8784		-0.340 8671	

Welt-Zeit		Mittleres Äquinoktium 1931.0					
		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Jan. 20	12	+0.484 3434	7 6126	—0.785 8784	3 9441	—0.340 8671	1 7109
21	0	0.491 9560	7 5739	—12466 0.781 9343	4 0049	—6588 0.339 1562	1 7373
21	12	0.499 5299	7 5349	0.777 9294	4 0654	0.337 4189	1 7636
22	0	0.507 0648	7 4952	12337 0.773 8640	4 1256	0.335 6553	1 7897
22	12	0.514 5600	7 4549	0.769 7384	4 1855	0.333 8656	1 8157
23	0	0.522 0149	7 4141	12205 0.765 5529	4 2449	0.332 0499	1 8415
23	12	+0.529 4290	7 3727	—0.761 3080	4 3040	—0.330 2084	1 8671
24	0	0.536 8017	7 3306	—12069 0.757 0040	4 3626	—7189 0.328 3413	1 8926
24	12	0.544 1323	7 2881	0.752 6414	4 4210	0.326 4487	1 9179
25	0	0.551 4204	7 2450	11930 0.748 2204	4 4789	0.324 5308	1 9430
25	12	0.558 6654	7 2013	0.743 7415	4 5366	0.322 5878	1 9680
26	0	0.565 8667	7 1571	11787 0.739 2049	4 5937	0.320 6198	1 9927
26	12	+0.573 0238	7 1123	—0.734 6112	4 6505	—0.318 6271	2 0174
27	0	0.580 1361	7 0670	—11640 0.729 9607	4 7067	—7770 0.316 6097	2 0418
27	12	0.587 2031	7 0213	0.725 2540	4 7628	0.314 5679	2 0661
28	0	0.594 2244	6 9750	11489 0.720 4912	4 8183	0.312 5018	2 0901
28	12	0.601 1994	6 9282	0.715 6729	4 8733	0.310 4117	2 1140
29	0	0.608 1276	6 8810	11335 0.710 7996	4 9280	0.308 2977	2 1377
29	12	+0.615 0086	6 8332	—0.705 8716	4 9823	—0.306 1600	2 1612
30	0	0.621 8418	6 7849	—11177 0.700 8893	5 0362	—8330 0.303 9988	2 1846
30	12	0.628 6267	6 7362	0.695 8531	5 0897	0.301 8142	2 2077
31	0	0.635 3629	6 6870	11015 0.690 7634	5 1427	0.299 6065	2 2306
31	12	0.642 0499	6 6375	0.685 6207	5 1954	0.297 3759	2 2535
Febr. 1	0	0.648 6874	6 5874	10851 0.680 4253	5 2476	0.295 1224	2 2761
1	12	+0.655 2748	6 5369	—0.675 1777	5 2994	—0.292 8463	2 2985
2	0	0.661 8117	6 4860	—10683 0.669 8783	5 3508	—8866 0.290 5478	2 3208
2	12	0.668 2977	6 4346	0.664 5275	5 4019	0.288 2270	2 3429
3	0	0.674 7323	6 3828	10511 0.659 1256	5 4525	0.285 8841	2 3648
3	12	0.681 1151	6 3305	0.653 6731	5 5027	0.283 5193	2 3865
4	0	0.687 4456	6 2779	10337 0.648 1704	5 5526	0.281 1328	2 4081
4	12	+0.693 7235	6 2247	—0.642 6178	5 6020	—0.278 7247	2 4295
5	0	0.699 9482	6 1711	—10159 0.637 0158	5 6511	—9378 0.276 2952	2 4508
5	12	0.706 1193	6 1171	0.631 3647	5 6997	0.273 8444	2 4719
6	0	0.712 2364	6 0626	9978 0.625 6650	5 7480	0.271 3725	2 4928
6	12	0.718 2990	6 0076	0.619 9170	5 7959	0.268 8797	2 5136
7	0	0.724 3066	5 9522	9795 0.614 1211	5 8433	0.266 3661	2 5341
7	12	+0.730 2588	5 8963	—0.608 2778	5 8903	—0.263 8320	2 5545
8	0	0.736 1551	5 8400	—9608 0.602 3875	5 9369	—9864 0.261 2775	2 5747
8	12	0.741 9951	5 7832	0.596 4506	5 9831	0.258 7028	2 5948
9	0	0.747 7783	5 7260	9418 0.590 4675	6 0287	0.256 1080	2 6147
9	12	0.753 5043	5 6682	0.584 4388	6 0742	0.253 4933	2 6343
10	0	+0.759 1725	—	—9225 0.578 3646	—	—10173 0.250 8590	—
							—4424

		Mittleres Äquinoktium 1931.0								
Welt-Zeit		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0			
1931										
Febr.	10	+0.759 1725	5 6100	-9225	-0.578 3646	6 1190	-10173	-0.250 8590	2 6538	-4424
	10	0.764 7825	5 5513		0.572 2456	6 1633		0.248 2052	2 6730	
	11	0.770 3338	5 4922	9030	0.566 0823	6 2072	10322	0.245 5322	2 6921	4489
	11	0.775 8260	5 4326		0.559 8751	6 2506		0.242 8401	2 7109	
	12	0.781 2586	5 3727	8831	0.553 6245	6 2935	10469	0.240 1292	2 7296	4553
	12	0.786 6313	5 3122		0.547 3310	6 3360		0.237 3996	2 7480	
	13	+0.791 9435	5 2513	-8630	-0.540 9950	6 3778	-10612	-0.234 6516	2 7662	-4615
	13	0.797 1948	5 1900		0.534 6172	6 4193		0.231 8854	2 7843	
	14	0.802 3848	5 1283	8426	0.528 1979	6 4601	10752	0.229 1011	2 8020	4676
	14	0.807 5131	5 0661		0.521 7378	6 5006		0.226 2991	2 8196	
	15	0.812 5792	5 0036	8219	0.515 2372	6 5404	10889	0.223 4795	2 8369	4736
	15	0.817 5828	4 9407		0.508 6968	6 5796		0.220 6426	2 8539	
	16	+0.822 5235	4 8773	-8010	-0.502 1172	6 6184	-11023	-0.217 7887	2 8708	-4794
	16	0.827 4008	4 8136		0.495 4988	6 6567		0.214 9179	2 8875	
	17	0.832 2144	4 7495	7799	0.488 8421	6 6943	11153	0.212 0304	2 9038	4851
	17	0.836 9639	4 6851		0.482 1478	6 7316		0.209 1266	2 9199	
	18	0.841 6490	4 6203	7585	0.475 4162	6 7680	11280	0.206 2067	2 9358	4906
	18	0.846 2693	4 5551		0.468 6482	6 8041		0.203 2709	2 9515	
	19	+0.850 8244	4 4896	-7369	-0.461 8441	6 8395	-11403	-0.200 3194	2 9669	-4959
	19	0.855 3140	4 4237		0.455 0046	6 8744		0.197 3525	2 9820	
	20	0.859 7377	4 3575	7150	0.448 1302	6 9086	11523	0.194 3705	2 9969	5011
	20	0.864 0952	4 2911		0.441 2216	6 9425		0.191 3736	3 0115	
	21	0.868 3863	4 2243	6930	0.434 2791	6 9756	11639	0.188 3621	3 0259	5061
	21	0.872 6106	4 1573		0.427 3035	7 0082		0.185 3362	3 0401	
	22	+0.876 7679	4 0900	-6707	-0.420 2953	7 0401	-11751	-0.182 2961	3 0539	-5110
	22	0.880 8579	4 0223		0.413 2552	7 0716		0.179 2422	3 0675	
	23	0.884 8802	3 9544	6483	0.406 1836	7 1024	11860	0.176 1747	3 0809	5157
	23	0.888 8346	3 8863		0.399 0812	7 1326		0.173 0938	3 0940	
	24	0.892 7209	3 8178	6256	0.391 9486	7 1623	11965	0.169 9998	3 1068	5203
	24	0.896 5387	3 7492		0.384 7863	7 1914		0.166 8930	3 1195	
	25	+0.900 2879	3 6803	-6027	-0.377 5949	7 2199	-12067	-0.163 7735	3 1318	-5247
	25	0.903 9682	3 6112		0.370 3750	7 2478		0.160 6417	3 1439	
	26	0.907 5794	3 5419	5796	0.363 1272	7 2751	12165	0.157 4978	3 1557	5290
	26	0.911 1213	3 4724		0.355 8521	7 3019		0.154 3421	3 1672	
	27	0.914 5937	3 4027	5564	0.348 5502	7 3280	12259	0.151 1749	3 1785	5331
	27	0.917 9964	3 3328		0.341 2222	7 3537		0.147 9964	3 1896	
	28	+0.921 3292	3 2627	-5330	-0.333 8685	7 3787	-12349	-0.144 8068	3 2004	-5370
	28	0.924 5919	3 1926		0.326 4898	7 4031		0.141 6064	3 2110	
März	1	0.927 7845	3 1222	5095	0.319 0867	7 4270	12436	0.138 3954	3 2213	5408
	1	0.930 9067	3 0516		0.311 6597	7 4504		0.135 1741	3 2314	
	2	0.933 9583	2 9809	-4858	0.304 2093	7 4731	-12519	0.131 9427	3 2412	-5444
	2	+0.936 9392			-0.296 7362			-0.128 7015		

Mittleres Äquinoktium 1931.0

Welt-Zeit		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
März	2 12 ^h	+0.936 9392 2 9100		-0.296 7362 7 4954		-0.128 7015 3 2508	
	3 0	0.939 8492 2 8391	-4620	0.289 2408 7 5171	-12598	0.125 4507 3 2601	-5478
	3 12	0.942 6883 2 7679		0.281 7237 7 5383		0.122 1906 3 2694	
	4 0	0.945 4562 2 6965	4380	0.274 1854 7 5590	12674	0.118 9212 3 2783	5511
	4 12	0.948 1527 2 6251		0.266 6264 7 5790		0.115 6429 3 2870	
	5 0	0.950 7778 2 5535	4139	0.259 0474 7 5986	12745	0.112 3559 3 2955	5542
	5 12	+0.953 3313 2 4817		-0.251 4488 7 6177		-0.109 0604 3 3037	
	6 0	0.955 8130 2 4098	-3896	0.243 8311 7 6362	-12813	0.105 7567 3 3117	-5572
	6 12	0.958 2228 2 3376		0.236 1949 7 6542		0.102 4450 3 3196	
	7 0	0.960 5604 2 2653	3652	0.228 5407 7 6717	12877	0.099 1254 3 3271	5600
	7 12	0.962 8257 2 1929		0.220 8690 7 6885		0.095 7983 3 3344	
	8 0	0.965 0186 2 1202	3407	0.213 1805 7 7049	12937	0.092 4639 3 3416	5626
	8 12	+0.967 1388 2 0474		-0.205 4756 7 7207		-0.089 1223 3 3485	
	9 0	0.969 1862 1 9745	-3162	0.197 7549 7 7359	-12993	0.085 7738 3 3551	-5651
	9 12	0.971 1607 1 9013		0.190 0190 7 7506		0.082 4187 3 3615	
	10 0	0.973 0620 1 8280	2915	0.182 2684 7 7647	13045	0.079 0572 3 3676	5673
	10 12	0.974 8900 1 7545		0.174 5037 7 7782		0.075 6896 3 3735	
	11 0	0.976 6445 1 6809	2667	0.166 7255 7 7911	13093	0.072 3161 3 3791	5694
	11 12	+0.978 3254 1 6072		-0.158 9344 7 8036		-0.068 9370 3 3846	
	12 0	0.979 9326 1 5333	-2418	0.151 1308 7 8153	-13137	0.065 5524 3 3897	-5713
	12 12	0.981 4659 1 4594		0.143 3155 7 8264		0.062 1627 3 3946	
	13 0	0.982 9253 1 3851	2169	0.135 4891 7 8369	13177	0.058 7681 3 3992	5731
	13 12	0.984 3104 1 3110		0.127 6522 7 8469		0.055 3689 3 4035	
	14 0	0.985 6214 1 2366	1919	0.119 8053 7 8563	13214	0.051 9654 3 4075	5747
	14 12	+0.986 8580 1 1621		-0.111 9490 7 8649		-0.048 5579 3 4114	
	15 0	0.988 0201 1 0876	-1669	0.104 0841 7 8730	-13246	0.045 1465 3 4149	-5761
	15 12	0.989 1077 1 0130		0.096 2111 7 8805		0.041 7316 3 4182	
	16 0	0.990 1207 9383	1418	0.088 3306 7 8873	13274	0.038 3134 3 4212	5773
	16 12	0.991 0590 8636		0.080 4433 7 8935		0.034 8922 3 4240	
	17 0	0.991 9226 7888	1166	0.072 5498 7 8991	13298	0.031 4682 3 4265	5784
	17 12	+0.992 7114 7139		-0.064 6507 7 9042		-0.028 0417 3 4286	
	18 0	0.993 4253 6390	-915	0.056 7465 7 9085	-13319	0.024 6131 3 4305	-5792
	18 12	0.994 0643 5642		0.048 8380 7 9122		0.021 1826 3 4322	
	19 0	0.994 6285 4892	663	0.040 9258 7 9153	13335	0.017 7504 3 4335	5799
	19 12	0.995 1177 4144		0.033 0105 7 9178		0.014 3169 3 4345	
	20 0	0.995 5321 3394	410	0.025 0927 7 9196	13348	0.010 8824 3 4354	5805
	20 12	+0.995 8715 2646		-0.017 1731 7 9209		-0.007 4470 3 4359	
	21 0	0.996 1361 1896	-158	0.009 2522 7 9214	-13356	0.004 0111 3 4361	-5808
	21 12	0.996 3257 1147		-0.001 3308 7 9214		-0.000 5750 3 4362	
	22 0	0.996 4404 398	+95	+0.006 5906 7 9207	13360	+0.002 8612 3 4359	5810
	22 12	0.996 4802 349		0.014 5113 7 9196		0.006 2971 3 4353	
	23 0	+0.996 4453	+347	+0.022 4309	-13360	+0.009 7324	-5810

Welt-Zeit		Mittleres Äquinoktium 1931.0					
		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
März	23 0	+0.996 4453 1096	+ 347	+0.022 4309 7 9176	—13360	+0.009 7324 3 4344	—5810
	23 12	0.996 3357 1843		0.030 3485 7 9150		0.013 1668 3 4333	
	24 0	0.996 1514 2589	599	0.038 2635 7 9119	13357	0.016 6001 3 4319	5809
	24 12	0.995 8925 3334		0.046 1754 7 9082		0.020 0320 3 4303	
	25 0	0.995 5591 4078	851	0.054 0836 7 9038	13349	0.023 4623 3 4283	5805
	25 12	0.995 1513 4822		0.061 9874 7 8988		0.026 8906 3 4262	
	26 0	+0.994 6691 5563	+1103	+0.069 8862 7 8932	—13337	+0.030 3168 3 4237	—5800
	26 12	0.994 1128 6304		0.077 7794 7 8871		0.033 7405 3 4211	
	27 0	0.993 4824 7043	1355	0.085 6665 7 8803	13321	0.037 1616 3 4180	5793
	27 12	0.992 7781 7782		0.093 5468 7 8730		0.040 5796 3 4148	
	28 0	0.991 9999 8518	1606	0.101 4198 7 8651	13302	0.043 9944 3 4113	5785
	28 12	0.991 1481 9254		0.109 2849 7 8566		0.047 4057 3 4076	
	29 0	+0.990 2227 9987	+1857	+0.117 1415 7 8475	—13278	+0.050 8133 3 4036	—5774
	29 12	0.989 2240 1 0720		0.124 9890 7 8380		0.054 2169 3 3995	
	30 0	0.988 1520 1 1450	2107	0.132 8270 7 8278	13251	0.057 6164 3 3950	5762
	30 12	0.987 0070 1 2179		0.140 6548 7 8171		0.061 0114 3 3903	
	31 0	0.985 7891 1 2906	2356	0.148 4719 7 8059	13219	0.064 4017 3 3854	5748
	31 12	0.984 4985 1 3632		0.156 2778 7 7942		0.067 7871 3 3803	
April	1 0	+0.983 1353 1 4356	+2604	+0.164 0720 7 7819	—13184	+0.071 1674 3 3750	—5733
	1 12	0.981 6997 1 5080		0.171 8539 7 7692		0.074 5424 3 3694	
	2 0	0.980 1917 1 5801	2852	0.179 6231 7 7558	13145	0.077 9118 3 3636	5716
	2 12	0.978 6116 1 6521		0.187 3789 7 7420		0.081 2754 3 3576	
	3 0	0.976 9595 1 7239	3099	0.195 1209 7 7276	13101	0.084 6330 3 3514	5697
	3 12	0.975 2356 1 7957		0.202 8485 7 7128		0.087 9844 3 3450	
	4 0	+0.973 4399 1 8673	+3345	+0.210 5613 7 6974	—13054	+0.091 3294 3 3383	—5677
	4 12	0.971 5726 1 9387		0.218 2587 7 6816		0.094 6677 3 3314	
	5 0	0.969 6339 2 0100	3590	0.225 9403 7 6652	13003	0.097 9991 3 3243	5655
	5 12	0.967 6239 2 0812		0.233 6055 7 6482		0.101 3234 3 3170	
	6 0	0.965 5427 2 1523	3834	0.241 2537 7 6307	12948	0.104 6404 3 3095	5631
	6 12	0.963 3904 2 2232		0.248 8844 7 6127		0.107 9499 3 3017	
	7 0	+0.961 1672 2 2939	+4077	+0.256 4971 7 5941	—12890	+0.111 2516 3 2937	—5605
	7 12	0.958 8733 2 3645		0.264 0912 7 5751		0.114 5453 3 2854	
	8 0	0.956 5088 2 4350	4319	0.271 6663 7 5553	12828	0.117 8307 3 2769	5578
	8 12	0.954 0738 2 5053		0.279 2216 7 5352		0.121 1076 3 2682	
	9 0	0.951 5685 2 5754	4560	0.286 7568 7 5144	12762	0.124 3758 3 2592	5549
	9 12	0.948 9931 2 6454		0.294 2712 7 4931		0.127 6350 3 2501	
	10 0	+0.946 3477 2 7151	+4799	+0.301 7643 7 4712	—12692	+0.130 8851 3 2406	—5519
	10 12	0.943 6326 2 7847		0.309 2355 7 4488		0.134 1257 3 2308	
	11 0	0.940 8479 2 8540	5037	0.316 6843 7 4258	12618	0.137 3565 3 2209	5487
	11 12	0.937 9939 2 9232		0.324 1101 7 4022		0.140 5774 3 2108	
	12 0	0.935 0707 2 9921	+5273	0.331 5123 7 3780	—12541	0.143 7882 3 2003	—5453
	12 12	+0.932 0786		+0.338 8903		+0.146 9885	

		Mittleres Äquinoktium 1931.0					
Welt-Zeit		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
April	12	+0.932 0786 3 0608		+0.338 8903 7 3534		+0.146 9885 3 1897	
	13	0.929 0178 3 1293	+5508	0.346 2437 7 3282	-12460	0.150 1782 3 1787	-5418
	13	0.925 8885 3 1975		0.353 5719 7 3024		0.153 3569 3 1676	
	14	0.922 6910 3 2655	5741	0.360 8743 7 2760	12375	0.156 5245 3 1562	5381
	14	0.919 4255 3 3331		0.368 1503 7 2492		0.159 6807 3 1445	
	15	0.916 0924 3 4006	5973	0.375 3995 7 2217	12287	0.162 8252 3 1327	5343
	15	+0.912 6918 3 4679		+0.382 6212 7 1937		+0.165 9579 3 1205	
	16	0.909 2239 3 5348	+6203	0.389 8149 7 1651	-12195	0.169 0784 3 1081	-5303
	16	0.905 6891 3 6015		0.396 9800 7 1361		0.172 1865 3 0956	
	17	0.902 0876 3 6678	6431	0.404 1161 7 1064	12100	0.175 2821 3 0827	5262
	17	0.898 4198 3 7337		0.411 2225 7 0763		0.178 3648 3 0695	
	18	0.894 6861 3 7994	6657	0.418 2988 7 0456	12001	0.181 4343 3 0563	5219
	18	+0.890 8867 3 8648		+0.425 3444 7 0144		+0.184 4906 3 0427	
	19	0.887 0219 3 9299	+6881	0.432 3588 6 9825	-11898	0.187 5333 3 0289	-5174
	19	0.883 0920 3 9946		0.439 3413 6 9503		0.190 5622 3 0149	
	20	0.879 0974 4 0590	7103	0.446 2916 6 9174	11792	0.193 5771 3 0006	5128
	20	0.875 0384 4 1231		0.453 2090 6 8841		0.196 5777 2 9861	
	21	0.870 9153 4 1867	7323	0.460 0931 6 8502	11682	0.199 5638 2 9714	5080
	21	+0.866 7286 4 2499		+0.466 9433 6 8159		+0.202 5352 2 9565	
	22	0.862 4787 4 3128	+7541	0.473 7592 6 7811	-11569	0.205 4917 2 9413	-5031
	22	0.858 1659 4 3754		0.480 5403 6 7457		0.208 4330 2 9260	
	23	0.853 7905 4 4375	7756	0.487 2860 6 7099	11453	0.211 3590 2 9103	4980
	23	0.849 3530 4 4992		0.493 9959 6 6736		0.214 2693 2 8946	
	24	0.844 8538 4 5605	7970	0.500 6695 6 6368	11333	0.217 1639 2 8786	4928
	24	+0.840 2933 4 6215		+0.507 3063 6 5995		+0.220 0425 2 8624	
	25	0.835 6718 4 6819	+8181	0.513 9058 6 5619	-11210	0.222 9049 2 8460	-4875
	25	0.830 9899 4 7421		0.520 4677 6 5238		0.225 7509 2 8294	
	26	0.826 2478 4 8018	8390	0.526 9915 6 4852	11084	0.228 5803 2 8127	4820
	26	0.821 4460 4 8611		0.533 4767 6 4463		0.231 3930 2 7957	
	27	0.816 5849 4 9200	8596	0.539 9230 6 4068	10954	0.234 1887 2 7786	4764
	27	+0.811 6649 4 9784		+0.546 3298 6 3671		+0.236 9673 2 7614	
	28	0.806 6865 5 0364	+8800	0.552 6969 6 3268	-10822	0.239 7287 2 7439	-4706
	28	0.801 6501 5 0941		0.559 0237 6 2863		0.242 4726 2 7262	
	29	0.796 5560 5 1513	9001	0.565 3100 6 2453	10686	0.245 1988 2 7084	4647
	29	0.791 4047 5 2082		0.571 5553 6 2039		0.247 9072 2 6905	
	30	0.786 1965 5 2646	9199	0.577 7592 6 1622	10547	0.250 5977 2 6724	4587
	30	+0.780 9319 5 3206		+0.583 9214 6 1200		+0.253 2701 2 6541	
Mai	1	0.775 6113 5 3763	+9395	0.590 0414 6 0775	-10405	0.255 9242 2 6357	-4525
	1	0.770 2350 5 4317		0.596 1189 6 0347		0.258 5599 2 6171	
	2	0.764 8033 5 4866	9588	0.602 1536 5 9914	10261	0.261 1770 2 5984	4462
	2	0.759 3167 5 5411		0.608 1450 5 9477		0.263 7754 2 5794	
	3	+0.753 7756	+9779	+0.614 0927	-10113	+0.266 3548	-4398

Welt-Zeit		Mittleres Äquinoktium 1931.0					
		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Mai	3 0	+0.753 7756 _{5 5952}	+ 9779	+0.614 0927 _{5 9036}	—10113	+0.266 3548 _{2 5603}	—4398
	3 12	0.748 1804 _{5 6491}		0.619 9963 _{5 8593}		0.268 9151 _{2 5411}	
	4 0	0.742 5313 _{5 7024}	9966	0.625 8556 _{5 8145}	9963	0.271 4562 _{2 5217}	4333
	4 12	0.736 8289 _{5 7554}		0.631 6701 _{5 7693}		0.273 9779 _{2 5021}	
	5 0	0.731 0735 _{5 8081}	10151	0.637 4394 _{5 7237}	9809	0.276 4800 _{2 4824}	4266
	5 12	0.725 2654 _{5 8603}		0.643 1631 _{5 6777}		0.278 9624 _{2 4626}	
	6 0	+0.719 4051 _{5 9122}	+10333	+0.648 8408 _{5 6313}	—9653	+0.281 4250 _{2 4425}	—4198
	6 12	0.713 4929 _{5 9637}		0.654 4721 _{5 5845}		0.283 8675 _{2 4222}	
	7 0	0.707 5292 _{6 0147}	10512	0.660 0566 _{5 5373}	9494	0.286 2897 _{2 4017}	4129
	7 12	0.701 5145 _{6 0654}		0.665 5939 _{5 4898}		0.288 6914 _{2 3812}	
	8 0	0.695 4491 _{6 1156}	10687	0.671 0837 _{5 4418}	9332	0.291 0726 _{2 3604}	4058
	8 12	0.689 3335 _{6 1655}		0.676 5255 _{5 3934}		0.293 4330 _{2 3394}	
	9 0	+0.683 1680 _{6 2148}	+10860	+0.681 9189 _{5 3446}	—9167	+0.295 7724 _{2 3183}	—3987
	9 12	0.676 9532 _{6 2637}		0.687 2635 _{5 2954}		0.298 0907 _{2 2970}	
	10 0	0.670 6895 _{6 3122}	11030	0.692 5589 _{5 2458}	9000	0.300 3877 _{2 2755}	3914
	10 12	0.664 3773 _{6 3602}		0.697 8047 _{5 1959}		0.302 6632 _{2 2539}	
	11 0	0.658 0171 _{6 4078}	11196	0.703 0006 _{5 1456}	8830	0.304 9171 _{2 2321}	3840
	11 12	0.651 6093 _{6 4549}		0.708 1462 _{5 0948}		0.307 1492 _{2 2101}	
	12 0	+0.645 1544 _{6 5015}	+11360	+0.713 2410 _{5 0437}	—8658	+0.309 3593 _{2 1879}	—3765
	12 12	0.638 6529 _{6 5478}		0.718 2847 _{4 9923}		0.311 5472 _{2 1657}	
	13 0	0.632 1051 _{6 5934}	11520	0.723 2770 _{4 9404}	8483	0.313 7129 _{2 1432}	3689
	13 12	0.625 5117 _{6 6387}		0.728 2174 _{4 8882}		0.315 8561 _{2 1206}	
	14 0	0.618 8730 _{6 6833}	11676	0.733 1056 _{4 8356}	8306	0.317 9767 _{2 0977}	3612
	14 12	0.612 1897 _{6 7275}		0.737 9412 _{4 7827}		0.320 0744 _{2 0747}	
	15 0	+0.605 4622 _{6 7712}	+11830	+0.742 7239 _{4 7294}	—8126	+0.322 1491 _{2 0516}	—3534
	15 12	0.598 6910 _{6 8145}		0.747 4533 _{4 6757}		0.324 2007 _{2 0283}	
	16 0	0.591 8765 _{6 8571}	11980	0.752 1290 _{4 6217}	7944	0.326 2290 _{2 0049}	3455
	16 12	0.585 0194 _{6 8993}		0.756 7507 _{4 5673}		0.328 2339 _{1 9813}	
	17 0	0.578 1201 _{6 9409}	12126	0.761 3180 _{4 5126}	7759	0.330 2152 _{1 9575}	3375
	17 12	0.571 1792 _{6 9819}		0.765 8306 _{4 4575}		0.332 1727 _{1 9337}	
	18 0	+0.564 1973 _{7 0225}	+12269	+0.770 2881 _{4 4021}	—7573	+0.334 1064 _{1 9096}	—3293
	18 12	0.557 1748 _{7 0624}		0.774 6902 _{4 3466}		0.336 0160 _{1 8854}	
	19 0	0.550 1124 _{7 1018}	12409	0.779 0368 _{4 2905}	7384	0.337 9014 _{1 8611}	3211
	19 12	0.543 0106 _{7 1407}		0.783 3273 _{4 2343}		0.339 7625 _{1 8366}	
	20 0	0.535 8699 _{7 1789}	12545	0.787 5616 _{4 1777}	7193	0.341 5991 _{1 8120}	3128
	20 12	0.528 6910 _{7 2167}		0.791 7393 _{4 1208}		0.343 4111 _{1 7874}	
	21 0	+0.521 4743 _{7 2537}	+12677	+0.795 8601 _{4 0636}	—7000	+0.345 1985 _{1 7626}	—3044
	21 12	0.514 2206 _{7 2904}		0.799 9237 _{4 0063}		0.346 9611 _{1 7376}	
	22 0	0.506 9302 _{7 3263}	12806	0.803 9300 _{3 9486}	6805	0.348 6987 _{1 7125}	2959
	22 12	0.499 6039 _{7 3617}		0.807 8786 _{3 8906}		0.350 4112 _{1 6874}	
	23 0	0.492 2422 _{7 3965}	+12931	0.811 7692 _{3 8325}	—6608	0.352 0986 _{1 6621}	—2874
	23 12	+0.484 8457		+0.815 6017		+0.353 7607	

Mittleres Äquinoktium 1931.0

Welt-Zeit		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Mai	23 12	+0.484 8457 7 4307		+0.815 6017 3 7741		+0.353 7607 1 6368	
	24 0	0.477 4150 7 4644	+13053	0.819 3758 3 7155	—6409	0.355 3975 1 6113	—2787
	24 12	0.469 9506 7 4975		0.823 0913 3 6568		0.357 0088 1 5858	
	25 0	0.462 4531 7 5300	13171	0.826 7481 3 5977	6209	0.358 5946 1 5601	2700
	25 12	0.454 9231 7 5620		0.830 3458 3 5385		0.360 1547 1 5344	
	26 0	0.447 3611 7 5934	13285	0.833 8843 3 4791	6007	0.361 6891 1 5086	2612
	26 12	+0.439 7677 7 6242		+0.837 3634 3 4196		+0.363 1977 1 4828	
	27 0	0.432 1435 7 6545	+13395	0.840 7830 3 3598	—5803	0.364 6805 1 4568	—2523
	27 12	0.424 4890 7 6842		0.844 1428 3 2998		0.366 1373 1 4309	
	28 0	0.416 8048 7 7134	13501	0.847 4426 3 2396	5598	0.367 5682 1 4048	2434
	28 12	0.409 0914 7 7421		0.850 6822 3 1794		0.368 9730 1 3787	
	29 0	0.401 3493 7 7702	13603	0.853 8616 3 1189	5391	0.370 3517 1 3525	2344
	29 12	+0.393 5791 7 7979		+0.856 9805 3 0584		+0.371 7042 1 3262	
	30 0	0.385 7812 7 8249	+13702	0.860 0389 2 9976	—5182	0.373 0304 1 2998	—2253
	30 12	0.377 9563 7 8515		0.863 0365 2 9366		0.374 3302 1 2735	
	31 0	0.370 1048 7 8775	13797	0.865 9731 2 8754	4972	0.375 6037 1 2469	2162
	31 12	0.362 2273 7 9031		0.868 8485 2 8142		0.376 8506 1 2204	
Juni	1 0	0.354 3242 7 9281	13888	0.871 6627 2 7527	4761	0.378 0710 1 1937	2070
	1 12	+0.346 3961 7 9527		+0.874 4154 2 6911		+0.379 2647 1 1671	
	2 0	0.338 4434 7 9767	+13975	0.877 1065 2 6292	—4548	0.380 4318 1 1403	—1978
	2 12	0.330 4667 8 0001		0.879 7357 2 5672		0.381 5721 1 1135	
	3 0	0.322 4666 8 0230	14058	0.882 3029 2 5050	4334	0.382 6856 1 0865	1885
	3 12	0.314 4436 8 0455		0.884 8079 2 4427		0.383 7721 1 0595	
	4 0	0.306 3981 8 0673	14137	0.887 2506 2 3801	4118	0.384 8316 1 0324	1791
	4 12	+0.298 3308 8 0887		+0.889 6307 2 3173		+0.385 8640 1 0053	
	5 0	0.290 2421 8 1094	+14212	0.891 9480 2 2544	—3901	0.386 8693 9780	—1697
	5 12	0.282 1327 8 1297		0.894 2024 2 1915		0.387 8473 9506	
	6 0	0.274 0030 8 1494	14283	0.896 3939 2 1282	3683	0.388 7979 9232	1602
	6 12	0.265 8536 8 1685		0.898 5221 2 0648		0.389 7211 8958	
	7 0	0.257 6851 8 1871	14349	0.900 5869 2 0012	3465	0.390 6169 8682	1507
	7 12	+0.249 4980 8 2051		+0.902 5881 1 9374		+0.391 4851 8406	
	8 0	0.241 2929 8 2225	+14412	0.904 5255 1 8736	—3245	0.392 3257 8129	—1411
	8 12	0.233 0704 8 2393		0.906 3991 1 8095		0.393 1386 7852	
	9 0	0.224 8311 8 2556	14471	0.908 2086 1 7453	3024	0.393 9238 7573	1315
	9 12	0.216 5755 8 2712		0.909 9539 1 6810		0.394 6811 7294	
	10 0	0.208 3043 8 2863	14526	0.911 6349 1 6165	2802	0.395 4105 7014	1218
	10 12	+0.200 0180 8 3009		+0.913 2514 1 5519		+0.396 1119 6735	
	11 0	0.191 7171 8 3148	+14576	0.914 8033 1 4872	—2580	0.396 7854 6454	—1122
	11 12	0.183 4023 8 3281		0.916 2905 1 4222		0.397 4308 6172	
	12 0	0.175 0742 8 3408	14623	0.917 7127 1 3573	2357	0.398 0480 5889	1025
	12 12	0.166 7334 8 3528		0.919 0700 1 2922		0.398 6369 5608	
	13 0	+0.158 3806	+14665	+0.920 3622	—2133	+0.399 1977	— 927

Welt-Zeit		Mittleres Äquinoktium 1931.0								
		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0			
1931										
Juni	13 0	+0.158 3806	8 3643	+14665	+0.920 3622	1 2270	—2133	+0.399 1977	5324	—927
	13 12	0.150 0163	8 3752		0.921 5892	1 1616		0.399 7301	5040	
	14 0	0.141 6411	8 3854	14704	0.922 7508	1 0962	1909	0.400 2341	4756	830
	14 12	0.133 2557	8 3950		0.923 8470	1 0306		0.400 7097	4473	
	15 0	0.124 8607	8 4040	14738	0.924 8776	9650	1684	0.401 1570	4188	732
	15 12	0.116 4567	8 4123		0.925 8426	8993		0.401 5758	3902	
	16 0	+0.108 0444	8 4200	+14768	+0.926 7419	8335	—1459	+0.401 9660	3616	—634
	16 12	0.099 6244	8 4270		0.927 5754	7678		0.402 3276	3331	
	17 0	0.091 1974	8 4334	14794	0.928 3432	7019	1233	0.402 6607	3044	536
	17 12	0.082 7640	8 4391		0.929 0451	6361		0.402 9651	2758	
	18 0	0.074 3249	8 4442	14816	0.929 6812	5701	1007	0.403 2409	2472	438
	18 12	0.065 8807	8 4487		0.930 2513	5042		0.403 4881	2186	
	19 0	+0.057 4320	8 4524	+14833	+0.930 7555	4382	—780	+0.403 7067	1899	—339
	19 12	0.048 9796	8 4556		0.931 1937	3723		0.403 8966	1612	
	20 0	0.040 5240	8 4581	14846	0.931 5660	3063	553	0.404 0578	1326	240
	20 12	0.032 0659	8 4601		0.931 8723	2405		0.404 1904	1040	
	21 0	0.023 6058	8 4613	14855	0.932 1128	1745	326	0.404 2944	754	142
	21 12	0.015 1445	8 4620		0.932 2873	1088		0.404 3698	468	
	22 0	+0.006 6825	8 4620	+14859	+0.932 3961	429	—99	+0.404 4166	182	—43
	22 12	—0.001 7795	8 4615		0.932 4390	228		0.404 4348	102	
	23 0	0.010 2410	8 4603	14860	0.932 4162	884	+128	0.404 4246	387	+55
	23 12	0.018 7013	8 4585		0.932 3278	1541		0.404 3859	672	
	24 0	0.027 1598	8 4562	14856	0.932 1737	2197	354	0.404 3187	956	154
	24 12	0.035 6160	8 4532		0.931 9540	2851		0.404 2231	1241	
	25 0	—0.044 0692	8 4497	+14848	+0.931 6689	3505	+581	+0.404 0990	1524	+252
	25 12	0.052 5189	8 4458		0.931 3184	4160		0.403 9466	1808	
	26 0	0.060 9647	8 4412	14836	0.930 9024	4813	807	0.403 7658	2091	351
	26 12	0.069 4059	8 4360		0.930 4211	5465		0.403 5567	2373	
	27 0	0.077 8419	8 4303	14819	0.929 8746	6117	1033	0.403 3194	2655	449
	27 12	0.086 2722	8 4239		0.929 2629	6768		0.403 0539	2938	
	28 0	—0.094 6961	8 4171	+14799	+0.928 5861	7418	+1259	+0.402 7601	3219	+548
	28 12	0.103 1132	8 4097		0.927 8443	8068		0.402 4382	3501	
	29 0	0.111 5229	8 4018	14775	0.927 0375	8716	1485	0.402 0881	3782	646
	29 12	0.119 9247	8 3935		0.926 1659	9365		0.401 7099	4062	
	30 0	0.128 3182	8 3845	14746	0.925 2294	10013	1710	0.401 3037	4343	744
	30 12	0.136 7027	8 3749		0.924 2281	10660		0.400 8694	4624	
Juli	1 0	—0.145 0776	8 3649	+14713	+0.923 1621	1 1306	+1935	+0.400 4070	4904	+841
	1 12	0.153 4425	8 3543		0.922 0315	1 1953		0.399 9166	5184	
	2 0	0.161 7968	8 3431	14677	0.920 8362	1 2598	2159	0.399 3982	5463	939
	2 12	0.170 1399	8 3313		0.919 5764	1 3243		0.398 8519	5742	
	3 0	0.178 4712	8 3190	+14636	0.918 2521	1 3886	+2383	0.398 2777	6021	+1036
	3 12	—0.186 7902			+0.916 8635			+0.397 6756		

Mittleres Äquinoktium 1931.0

Welt-Zeit		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Juli	3 12 ^h	—0.186 7902	8 3062	+0.916 8635	1 4530	+0.397 6756	6299
	4 0	0.195 0964	8 2927	+0.915 4105	1 5172	+0.397 0457	6578
	4 12	0.203 3891	8 2788	0.913 8933	1 5815	0.396 3879	6857
	5 0	0.211 6679	8 2643	0.912 3118	1 6455	0.395 7022	7135
	5 12	0.219 9322	8 2491	0.910 6663	1 7096	0.394 9887	7413
	6 0	0.228 1813	8 2334	0.908 9567	1 7735	0.394 2474	7690
	6 12	—0.236 4147	8 2172	+0.907 1832	1 8374	+0.393 4784	7966
	7 0	0.244 6319	8 2003	0.905 3458	1 9011	0.392 6818	8242
	7 12	0.252 8322	8 1829	0.903 4447	1 9647	0.391 8576	8519
	8 0	0.261 0151	8 1648	0.901 4800	2 0283	0.391 0057	8794
	8 12	0.269 1799	8 1463	0.899 4517	2 0917	0.390 1263	9069
	9 0	0.277 3262	8 1271	0.897 3600	2 1550	0.389 2194	9344
	9 12	—0.285 4533	8 1073	+0.895 2050	2 2182	+0.388 2850	9619
	10 0	0.293 5606	8 0869	0.892 9868	2 2812	0.387 3231	9893
	10 12	0.301 6475	8 0660	0.890 7056	2 3443	0.386 3338	10165
	11 0	0.309 7135	8 0444	0.888 3613	2 4071	0.385 3173	10438
	11 12	0.317 7579	8 0223	0.885 9542	2 4697	0.384 2735	10710
	12 0	0.325 7802	7 9995	0.883 4845	2 5322	0.383 2025	10982
	12 12	—0.333 7797	7 9762	+0.880 9523	2 5947	+0.382 1043	11253
	13 0	0.341 7559	7 9522	0.878 3576	2 6568	0.380 9790	11523
	13 12	0.349 7081	7 9276	0.875 7008	2 7189	0.379 8267	11792
	14 0	0.357 6357	7 9024	0.872 9819	2 7808	0.378 6475	12061
	14 12	0.365 5381	7 8767	0.870 2011	2 8424	0.377 4414	12329
	15 0	0.373 4148	7 8502	0.867 3587	2 9039	0.376 2085	12596
	15 12	—0.381 2650	7 8231	+0.864 4548	2 9651	+0.374 9489	12863
	16 0	0.389 0881	7 7955	0.861 4897	3 0261	0.373 6626	13127
	16 12	0.396 8836	7 7673	0.858 4636	3 0869	0.372 3499	13391
	17 0	0.404 6509	7 7384	0.855 3767	3 1475	0.371 0108	13654
	17 12	0.412 3893	7 7091	0.852 2292	3 2078	0.369 6454	13916
	18 0	0.420 0984	7 6791	0.849 0214	3 2678	0.368 2538	14176
	18 12	—0.427 7775	7 6485	+0.845 7536	3 3276	+0.366 8362	14437
	19 0	0.435 4260	7 6174	0.842 4260	3 3871	0.365 3925	14695
	19 12	0.443 0434	7 5858	0.839 0389	3 4463	0.363 9230	14951
	20 0	0.450 6292	7 5535	0.835 5926	3 5052	0.362 4279	15207
	20 12	0.458 1827	7 5208	0.832 0874	3 5639	0.360 9072	15462
	21 0	0.465 7035	7 4875	0.828 5235	3 6222	0.359 3610	15715
	21 12	—0.473 1910	7 4537	+0.824 9013	3 6803	+0.357 7895	15966
	22 0	0.480 6447	7 4194	0.821 2210	3 7380	0.356 1929	16217
	22 12	0.488 0641	7 3847	0.817 4830	3 7955	0.354 5712	16466
	23 0	0.495 4488	7 3494	0.813 6875	3 8526	0.352 9246	16714
	23 12	0.502 7982	7 3135	0.809 8349	3 9095	0.351 2532	16960
	24 0	—0.510 1117	7 2771	+0.805 9254	3 9660	+0.349 5572	17205

		Mittleres Äquinoktium 1931.0					
Welt-Zeit		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Juli	24 0 ^h	—0.510 1117 7 2773	+12849	+0.805 9254 3 9661	+ 6831	+0.349 5572 1 7205	+2970
	24 12	0.517 3890 7 2405		0.801 9593 4 0224		0.347 8367 1 7448	
	25 0	0.524 6295 7 2033	12722	0.797 9369 4 0783	7026	0.346 0919 1 7691	3055
	25 12	0.531 8328 7 1657		0.793 8586 4 1340		0.344 3228 1 7933	
	26 0	0.538 9985 7 1275	12591	0.789 7246 4 1894	7218	0.342 5295 1 8173	3138
	26 12	0.546 1260 7 0890		0.785 5352 4 2446		0.340 7122 1 8411	
	27 0	—0.553 2150 7 0499	+12457	+0.781 2906 4 2994	+ 7409	+0.338 8711 1 8648	+3221
	27 12	0.560 2649 7 0104		0.776 9912 4 3540		0.337 0063 1 8885	
	28 0	0.567 2753 6 9704	12319	0.772 6372 4 4082	7597	0.335 1178 1 9119	3304
	28 12	0.574 2457 6 9299		0.768 2290 4 4622		0.333 2059 1 9353	
	29 0	0.581 1756 6 8891	12178	0.763 7668 4 5158	7784	0.331 2706 1 9585	3385
	29 12	0.588 0647 6 8477		0.759 2510 4 5692		0.329 3121 1 9817	
	30 0	—0.594 9124 6 8060	+12033	+0.754 6818 4 6224	+ 7969	+0.327 3304 2 0047	+3465
	30 12	0.601 7184 6 7637		0.750 0594 4 6751		0.325 3257 2 0276	
	31 0	0.608 4821 6 7209	11885	0.745 3843 4 7276	8151	0.323 2981 2 0503	3544
	31 12	0.615 2030 6 6778		0.740 6567 4 7799		0.321 2478 2 0730	
Aug.	1 0	0.621 8808 6 6341	11734	0.735 8768 4 8318	8331	0.319 1748 2 0955	3623
	1 12	0.628 5149 6 5899		0.731 0450 4 8835		0.317 0793 2 1178	
	2 0	—0.635 1048 6 5453	+11579	+0.726 1615 4 9348	+ 8508	+0.314 9615 2 1401	+3700
	2 12	0.641 6501 6 5003		0.721 2267 4 9859		0.312 8214 2 1622	
	3 0	0.648 1504 6 4547	11421	0.716 2408 5 0366	8683	0.310 6592 2 1842	3776
	3 12	0.654 6051 6 4088		0.711 2042 5 0869		0.308 4750 2 2061	
	4 0	0.661 0139 6 3623	11260	0.706 1173 5 1370	8856	0.306 2689 2 2278	3851
	4 12	0.667 3762 6 3154		0.700 9803 5 1868		0.304 0411 2 2494	
	5 0	—0.673 6916 6 2680	+11095	+0.695 7935 5 2362	+ 9026	+0.301 7917 2 2708	+3925
	5 12	0.679 9596 6 2201		0.690 5573 5 2853		0.299 5209 2 2922	
	6 0	0.686 1797 6 1717	10928	0.685 2720 5 3341	9193	0.297 2287 2 3134	3998
	6 12	0.692 3514 6 1230		0.679 9379 5 3825		0.294 9153 2 3344	
	7 0	0.698 4744 6 0737	10757	0.674 5554 5 4306	9358	0.292 5809 2 3552	4070
	7 12	0.704 5481 6 0239		0.669 1248 5 4784		0.290 2257 2 3760	
	8 0	—0.710 5720 5 9737	+10584	+0.663 6464 5 5257	+ 9520	+0.287 8497 2 3966	+4140
	8 12	0.716 5457 5 9232		0.658 1207 5 5728		0.285 4531 2 4170	
	9 0	0.722 4689 5 8719	10407	0.652 5479 5 6195	9680	0.283 0361 2 4373	4209
	9 12	0.728 3408 5 8203		0.646 9284 5 6657		0.280 5988 2 4574	
	10 0	0.734 1611 5 7681	10227	0.641 2627 5 7117	9836	0.278 1414 2 4773	4278
	10 12	0.739 9292 5 7156		0.635 5510 5 7571		0.275 6641 2 4971	
	11 0	—0.745 6448 5 6625	+10045	+0.629 7939 5 8022	+ 9990	+0.273 1670 2 5167	+4345
	11 12	0.751 3073 5 6089		0.623 9917 5 8471		0.270 6503 2 5362	
	12 0	0.756 9162 5 5549	9859	0.618 1446 5 8914	10142	0.268 1141 2 5554	4410
	12 12	0.762 4711 5 5006		0.612 2532 5 9352		0.265 5587 2 5745	
	13 0	0.767 9717 5 4457	+ 9671	0.606 3180 5 9786	+10290	0.262 9842 2 5934	+4475
	13 12	—0.773 4174		+0.600 3394		+0.260 3908	

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		Mittleres Äquinoktium 1931.0					
Welt-Zeit		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Aug. 13	12 ^h	−0.773 4174	5 3903	+0.600 3394	6 0217	+0.260 3908	2 6121
14	0	0.778 8077	5 3345	+0.594 3177	6 0641	+0.257 7787	2 6306
14	12	0.784 1422	5 2784	0.588 2536	6 1062	0.255 1481	2 6489
15	0	0.789 4206	5 2217	0.582 1474	6 1478	0.252 4992	2 6669
15	12	0.794 6423	5 1646	0.575 9996	6 1890	0.249 8323	2 6848
16	0	0.799 8069	5 1072	0.569 8106	6 2296	0.247 1475	2 7023
16	12	−0.804 9141	5 0494	+0.563 5810	6 2699	+0.244 4452	2 7198
17	0	0.809 9635	4 9912	0.557 3111	6 3095	0.241 7254	2 7370
17	12	0.814 9547	4 9326	0.551 0016	6 3487	0.238 9884	2 7540
18	0	0.819 8873	4 8737	0.544 6529	6 3873	0.236 2344	2 7708
18	12	0.824 7610	4 8146	0.538 2656	6 4256	0.233 4636	2 7874
19	0	0.829 5756	4 7550	0.531 8400	6 4633	0.230 6762	2 8037
19	12	−0.834 3306	4 6950	+0.525 3767	6 5006	+0.227 8725	2 8199
20	0	0.839 0256	4 6348	0.518 8761	6 5373	0.225 0526	2 8358
20	12	0.843 6604	4 5744	0.512 3388	6 5735	0.222 2168	2 8514
21	0	0.848 2348	4 5135	0.505 7653	6 6093	0.219 3654	2 8670
21	12	0.852 7483	4 4525	0.499 1560	6 6447	0.216 4984	2 8822
22	0	0.857 2008	4 3911	0.492 5113	6 6795	0.213 6162	2 8973
22	12	−0.861 5919	4 3294	+0.485 8318	6 7139	+0.210 7189	2 9121
23	0	0.865 9213	4 2674	0.479 1179	6 7479	0.207 8068	2 9268
23	12	0.870 1887	4 2053	0.472 3700	6 7813	0.204 8800	2 9413
24	0	0.874 3940	4 1428	0.465 5887	6 8144	0.201 9387	2 9556
24	12	0.878 5368	4 0799	0.458 7743	6 8468	0.198 9831	2 9696
25	0	0.882 6167	4 0169	0.451 9275	6 8788	0.196 0135	2 9835
25	12	−0.886 6336	3 9535	+0.445 0487	6 9105	+0.193 0300	2 9972
26	0	0.890 5871	3 8899	0.438 1382	6 9416	0.190 0328	3 0107
26	12	0.894 4770	3 8261	0.431 1966	6 9723	0.187 0221	3 0239
27	0	0.898 3031	3 7619	0.424 2243	7 0025	0.183 9982	3 0371
27	12	0.902 0650	3 6976	0.417 2218	7 0323	0.180 9611	3 0499
28	0	0.905 7626	3 6329	0.410 1895	7 0616	0.177 9112	3 0626
28	12	−0.909 3955	3 5679	+0.403 1279	7 0904	+0.174 8486	3 0750
29	0	0.912 9634	3 5027	0.396 0375	7 1187	0.171 7736	3 0873
29	12	0.916 4661	3 4372	0.388 9188	7 1466	0.168 6863	3 0994
30	0	0.919 9033	3 3715	0.381 7722	7 1740	0.165 5869	3 1114
30	12	0.923 2748	3 3054	0.374 5982	7 2011	0.162 4755	3 1230
31	0	0.926 5802	3 2391	0.367 3971	7 2275	0.159 3525	3 1345
31	12	−0.929 8193	3 1726	+0.360 1696	7 2535	+0.156 2180	3 1458
Sept. 1	0	0.932 9919	3 1057	0.352 9161	7 2790	0.153 0722	3 1569
1	12	0.936 0976	3 0388	0.345 6371	7 3040	0.149 9153	3 1677
2	0	0.939 1364	2 9714	0.338 3331	7 3286	0.146 7476	3 1784
2	12	0.942 1078	2 9038	0.331 0045	7 3526	0.143 5692	3 1888
3	0	−0.945 0116	+5168	+0.323 6519	+12667	+0.140 3804	+5508

Welt-Zeit		Mittleres Äquinoktium 1931.0					
		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Sept. 3	0	-0.945 0116 _{2 8359}	+5168	+0.323 6519 _{7 3762}	+12667	+0.140 3804 _{3 1991}	+5508
3	12	0.947 8475 _{2 7679}		0.316 2757 _{7 3992}		0.137 1813 _{3 2091}	
4	0	0.950 6154 _{2 6996}	4933	0.308 8765 _{7 4218}	12742	0.133 9722 _{3 2189}	5541
4	12	0.953 3150 _{2 6309}		0.301 4547 _{7 4438}		0.130 7533 _{3 2285}	
5	0	0.955 9459 _{2 5621}	4696	0.294 0109 _{7 4653}	12814	0.127 5248 _{3 2378}	5572
5	12	0.958 5080 _{2 4930}		0.286 5456 _{7 4864}		0.124 2870 _{3 2470}	
6	0	-0.961 0010 _{2 4236}	+4458	+0.279 0592 _{7 5069}	+12882	+0.121 0400 _{3 2560}	+5602
6	12	0.963 4246 _{2 3540}		0.271 5523 _{7 5269}		0.117 7840 _{3 2647}	
7	0	0.965 7786 _{2 2842}	4218	0.264 0254 _{7 5464}	12946	0.114 5193 _{3 2732}	5630
7	12	0.968 0628 _{2 2141}		0.256 4790 _{7 5652}		0.111 2461 _{3 2815}	
8	0	0.970 2769 _{2 1438}	3977	0.248 9138 _{7 5836}	13007	0.107 9646 _{3 2894}	5656
8	12	0.972 4207 _{2 0732}		0.241 3302 _{7 6014}		0.104 6752 _{3 2972}	
9	0	-0.974 4939 _{2 0025}	+3735	+0.233 7288 _{7 6187}	+13063	+0.101 3780 _{3 3047}	+5681
9	12	0.976 4964 _{1 9315}		0.226 1101 _{7 6354}		0.098 0733 _{3 3120}	
10	0	0.978 4279 _{1 8603}	3492	0.218 4747 _{7 6515}	13116	0.094 7613 _{3 3190}	5704
10	12	0.980 2882 _{1 7889}		0.210 8232 _{7 6670}		0.091 4423 _{3 3259}	
11	0	0.982 0771 _{1 7173}	3248	0.203 1562 _{7 6819}	13166	0.088 1164 _{3 3323}	5725
11	12	0.983 7944 _{1 6454}		0.195 4743 _{7 6963}		0.084 7841 _{3 3385}	
12	0	-0.985 4398 _{1 5734}	+3003	+0.187 7780 _{7 7100}	+13211	+0.081 4456 _{3 3445}	+5745
12	12	0.987 0132 _{1 5014}		0.180 0680 _{7 7231}		0.078 1011 _{3 3501}	
13	0	0.988 5146 _{1 4291}	2757	0.172 3449 _{7 7356}	13253	0.074 7510 _{3 3556}	5763
13	12	0.989 9437 _{1 3568}		0.164 6093 _{7 7475}		0.071 3954 _{3 3608}	
14	0	0.991 3005 _{1 2843}	2510	0.156 8618 _{7 7588}	13290	0.068 0346 _{3 3656}	5779
14	12	0.992 5848 _{1 2116}		0.149 1030 _{7 7695}		0.064 6690 _{3 3703}	
15	0	-0.993 7964 _{1 1389}	+2263	+0.141 3335 _{7 7796}	+13324	+0.061 2987 _{3 3746}	+5794
15	12	0.994 9353 _{1 0662}		0.133 5539 _{7 7890}		0.057 9241 _{3 3787}	
16	0	0.996 0015 ₉₉₃₄	2015	0.125 7649 _{7 7979}	13353	0.054 5454 _{3 3826}	5807
16	12	0.996 9949 ₉₂₀₅		0.117 9670 _{7 8062}		0.051 1628 _{3 3861}	
17	0	0.997 9154 ₈₄₇₆	1766	0.110 1608 _{7 8139}	13379	0.047 7767 _{3 3894}	5818
17	12	0.998 7630 ₇₇₄₆		0.102 3469 _{7 8210}		0.044 3873 _{3 3924}	
18	0	-0.999 5376 ₇₀₁₆	+1517	+0.094 5259 _{7 8274}	+13401	+0.040 9949 _{3 3952}	+5828
18	12	1.000 2392 ₆₂₈₆		0.086 6985 _{7 8335}		0.037 5997 _{3 3978}	
19	0	1.000 8678 ₅₅₅₅	1268	0.078 8650 _{7 8388}	13419	0.034 2019 _{3 4001}	5836
19	12	1.001 4233 ₄₈₂₄		0.071 0262 _{7 8437}		0.030 8018 _{3 4021}	
20	0	1.001 9057 ₄₀₉₃	1018	0.063 1825 _{7 8479}	13433	0.027 3997 _{3 4039}	5842
20	12	1.002 3150 ₃₃₆₁		0.055 3346 _{7 8516}		0.023 9958 _{3 4055}	
21	0	-1.002 6511 ₂₆₃₀	+ 768	+0.047 4830 _{7 8547}	+13443	+0.020 5903 _{3 4068}	+5846
21	12	1.002 9141 ₁₈₉₉		0.039 6283 _{7 8574}		0.017 1835 _{3 4079}	
22	0	1.003 1040 ₁₁₆₇	517	0.031 7709 _{7 8594}	13449	0.013 7756 _{3 4088}	5849
22	12	1.003 2207 ₄₃₅		0.023 9115 _{7 8609}		0.010 3668 _{3 4093}	
23	0	1.003 2642 ₂₉₆	+ 267	0.016 0506 _{7 8618}	+13451	0.006 9575 _{3 4097}	+5850
23	12	-1.003 2346		+0.008 1888		+0.003 5478	

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		Mittleres Äquinoktium 1931.0					
Welt-Zeit		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Sept. 23	12 ^h	—1.003 2346 1028		+0.008 1888 7 8623		+0.003 5478 3 4099	
24	0	1.003 1318 1759	+ 16	+0.000 3265 7 8621	+13450	+0.000 1379 3 4097	+5850
24	12	1.002 9559 2492		—0.007 5356 7 8615		—0.003 2718 3 4095	
25	0	1.002 7067 3224	— 234	0.015 3971 7 8602	13444	0.006 6813 3 4089	5847
25	12	1.002 3843 3956		0.023 2573 7 8585		0.010 0902 3 4082	
26	0	1.001 9887 4688	485	0.031 1158 7 8561	13435	0.013 4984 3 4071	5843
26	12	—1.001 5199 5420		—0.038 9719 7 8533		—0.016 9055 3 4060	
27	0	1.000 9779 6151	— 735	0.046 8252 7 8498	+13421	0.020 3115 3 4044	+5837
27	12	1.000 3628 6884		0.054 6750 7 8458		0.023 7159 3 4027	
28	0	0.999 6744 7615	985	0.062 5208 7 8413	13404	0.027 1186 3 4008	5830
28	12	0.998 9129 8347		0.070 3621 7 8364		0.030 5194 3 3986	
29	0	0.998 0782 9078	1235	0.078 1985 7 8307	13383	0.033 9180 3 3960	5820
29	12	—0.997 1704 9809		—0.086 0292 7 8246		—0.037 3140 3 3937	
30	0	0.996 1895 1 0540	—1485	0.093 8538 7 8179	+13358	0.040 7077 3 3906	+5809
30	12	0.995 1355 1 1271		0.101 6717 7 8106		0.044 0983 3 3875	
Okt. 1	0	0.994 0084 1 2001	1734	0.109 4823 7 8028	13329	0.047 4858 3 3841	5797
1	12	0.992 8083 1 2731		0.117 2851 7 7944		0.050 8699 3 3806	
2	0	0.991 5352 1 3461	1983	0.125 0795 7 7855	13296	0.054 2505 3 3767	5782
2	12	—0.990 1891 1 4191		—0.132 8650 7 7760		—0.057 6272 3 3727	
3	0	0.988 7700 1 4920	—2231	0.140 6410 7 7659	+13259	0.060 9999 3 3683	+5766
3	12	0.987 2780 1 5649		0.148 4069 7 7554		0.064 3682 3 3637	
4	0	0.985 7131 1 6378	2479	0.156 1623 7 7441	13218	0.067 7319 3 3589	5749
4	12	0.984 0753 1 7106		0.163 9064 7 7324		0.071 0908 3 3539	
5	0	0.982 3647 1 7833	2725	0.171 6388 7 7201	13174	0.074 4447 3 3486	5729
5	12	—0.980 5814 1 8561		—0.179 3589 7 7072		—0.077 7933 3 3430	
6	0	0.978 7253 1 9288	—2971	0.187 0661 7 6937	+13125	0.081 1363 3 3371	+5708
6	12	0.976 7965 2 0013		0.194 7598 7 6795		0.084 4734 3 3312	
7	0	0.974 7952 2 0738	3216	0.202 4393 7 6648	13072	0.087 8046 3 3248	5685
7	12	0.972 7214 2 1463		0.210 1041 7 6495		0.091 1294 3 3182	
8	0	0.970 5751 2 2186	3460	0.217 7536 7 6336	13015	0.094 4476 3 3113	5660
8	12	—0.968 3565 2 2908		—0.225 3872 7 6171		—0.097 7589 3 3042	
9	0	0.966 0657 2 3629	—3703	0.233 0043 7 5999	+12955	0.101 0631 3 2967	+5634
9	12	0.963 7028 2 4349		0.240 6042 7 5822		0.104 3598 3 2890	
10	0	0.961 2679 2 5068	3945	0.248 1864 7 5637	12891	0.107 6488 3 2810	5606
10	12	0.958 7611 2 5786		0.255 7501 7 5447		0.110 9298 3 2728	
11	0	0.956 1825 2 6501	4186	0.263 2948 7 5251	12823	0.114 2026 3 2642	5576
11	12	—0.953 5324 2 7216		—0.270 8199 7 5048		—0.117 4668 3 2555	
12	0	0.950 8108 2 7927	—4425	0.278 3247 7 4839	+12751	0.120 7223 3 2464	+5545
12	12	0.948 0181 2 8637		0.285 8086 7 4625		0.123 9687 3 2371	
13	0	0.945 1544 2 9344	4663	0.293 2711 7 4404	12675	0.127 2058 3 2275	5512
13	12	0.942 2200 3 0050		0.300 7115 7 4177		0.130 4333 3 2176	
14	0	—0.939 2150	—4900	—0.308 1292	+12596	—0.133 6509	+5477

Welt-Zeit		Mittleres Äquinoktium 1931.0					
		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Okt. 14	0 ^h	—0.939 2150 _{3 0752}	—4900	—0.308 1292 _{7 3943}	+12596	—0.133 6509 _{3 2075}	+5477
14	12	0.936 1398 _{3 1453}		0.315 5235 _{7 3706}		0.136 8584 _{3 1970}	
15	0	0.932 9945 _{3 2151}	5135	0.322 8941 _{7 3460}	12513	0.140 0554 _{3 1864}	5441
15	12	0.929 7794 _{3 2846}		0.330 2401 _{7 3210}		0.143 2418 _{3 1755}	
16	0	0.926 4948 _{3 3539}	5369	0.337 5611 _{7 2954}	12426	0.146 4173 _{3 1644}	5403
16	12	0.923 1409 _{3 4228}		0.344 8565 _{7 2693}		0.149 5817 _{3 1530}	
17	0	—0.919 7181 _{3 4915}	—5602	—0.352 1258 _{7 2426}	+12335	—0.152 7347 _{3 1414}	+5364
17	12	0.916 2266 _{3 5600}		0.359 3684 _{7 2153}		0.155 8761 _{3 1295}	
18	0	0.912 6666 _{3 6281}	5833	0.366 5837 _{7 1875}	12241	0.159 0056 _{3 1174}	5323
18	12	0.909 0385 _{3 6959}		0.373 7712 _{7 1593}		0.162 1230 _{3 1051}	
19	0	0.905 3426 _{3 7635}	6062	0.380 9305 _{7 1305}	12143	0.165 2281 _{3 0920}	5280
19	12	0.901 5791 _{3 8307}		0.388 0610 _{7 1011}		0.168 3207 _{3 0799}	
20	0	—0.897 7484 _{3 8977}	—6288	—0.395 1621 _{7 0713}	+12041	—0.171 4006 _{3 0668}	+5236
20	12	0.893 8507 _{3 9645}		0.402 2334 _{7 0409}		0.174 4674 _{3 0537}	
21	0	0.889 8862 _{4 0309}	6513	0.409 2743 _{7 0100}	11936	0.177 5211 _{3 0402}	5190
21	12	0.885 8553 _{4 0970}		0.416 2843 _{6 9787}		0.180 5613 _{3 0266}	
22	0	0.881 7583 _{4 1628}	6736	0.423 2630 _{6 9468}	11827	0.183 5879 _{3 0128}	5143
22	12	0.877 5955 _{4 2284}		0.430 2098 _{6 9144}		0.186 6007 _{2 9987}	
23	0	—0.873 3671 _{4 2936}	—6957	—0.437 1242 _{6 8815}	+11715	—0.189 5994 _{2 9844}	+5094
23	12	0.869 0735 _{4 3586}		0.444 0057 _{6 8481}		0.192 5838 _{2 9700}	
24	0	0.864 7149 _{4 4232}	7176	0.450 8538 _{6 8142}	11599	0.195 5538 _{2 9552}	5044
24	12	0.860 2917 _{4 4877}		0.457 6680 _{6 7798}		0.198 5090 _{2 9403}	
25	0	0.855 8040 _{4 5517}	7392	0.464 4478 _{6 7450}	11480	0.201 4493 _{2 9252}	4992
25	12	0.851 2523 _{4 6154}		0.471 1928 _{6 7096}		0.204 3745 _{2 9099}	
26	0	—0.846 6369 _{4 6788}	—7607	—0.477 9024 _{6 6737}	+11357	—0.207 2844 _{2 8943}	+4939
26	12	0.841 9581 _{4 7419}		0.484 5761 _{6 6374}		0.210 1787 _{2 8786}	
27	0	0.837 2162 _{4 8047}	7819	0.491 2135 _{6 6006}	11231	0.213 0573 _{2 8626}	4884
27	12	0.832 4115 _{4 8672}		0.497 8141 _{6 5633}		0.215 9199 _{2 8465}	
28	0	0.827 5443 _{4 9294}	8029	0.504 3774 _{6 5255}	11101	0.218 7664 _{2 8301}	4828
28	12	0.822 6149 _{4 9913}		0.510 9029 _{6 4872}		0.221 5965 _{2 8136}	
29	0	—0.817 6236 _{5 0528}	—8236	—0.517 3901 _{6 4484}	+10968	—0.224 4101 _{2 7968}	+4770
29	12	0.812 5708 _{5 1140}		0.523 8385 _{6 4092}		0.227 2069 _{2 7798}	
30	0	0.807 4568 _{5 1749}	8441	0.530 2477 _{6 3695}	10832	0.229 9867 _{2 7626}	4711
30	12	0.802 2819 _{5 2355}		0.536 6172 _{6 3292}		0.232 7493 _{2 7451}	
31	0	0.797 0464 _{5 2958}	8644	0.542 9464 _{6 2885}	10693	0.235 4944 _{2 7275}	4650
31	12	0.791 7506 _{5 3557}		0.549 2349 _{6 2474}		0.238 2219 _{2 7098}	
Nov. 1	0	—0.786 3949 _{5 4152}	—8844	—0.555 4823 _{6 2057}	+10550	—0.240 9317 _{2 6917}	+4588
1	12	0.780 9797 _{5 4745}		0.561 6880 _{6 1635}		0.243 6234 _{2 6734}	
2	0	0.775 5052 _{5 5333}	9041	0.567 8515 _{6 1208}	10404	0.246 2968 _{2 6549}	4525
2	12	0.769 9719 _{5 5919}		0.573 9723 _{6 0777}		0.248 9517 _{2 6363}	
3	0	0.764 3800 _{5 6501}	9236	0.580 0500 _{6 0340}	+10255	0.251 5880 _{2 6173}	+4460
3	12	—0.758 7299		—0.586 0840		—0.254 2053	

Welt-Zeit		Mittleres Äquinoktium 1931.0					
		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Nov. 3	12 ^h	—0.758 7299	5 7079	—0.586 0840	5 9898	—0.254 2053	2 5984
4	0	0.753 0220	5 7653	0.592 0738	5 9452	0.256 8037	2 5790
4	12	0.747 2567	5 8224	0.598 0190	5 9000	0.259 3827	2 5593
5	0	0.741 4343	5 8791	0.603 9190	5 8544	0.261 9420	2 5395
5	12	0.735 5552	5 9354	0.609 7734	5 8082	0.264 4815	2 5196
6	0	0.729 6198	5 9912	0.615 5816	5 7615	0.267 0011	2 4993
6	12	—0.723 6286	6 0467	—0.621 3431	5 7144	—0.269 5004	2 4789
7	0	0.717 5819	6 1016	0.627 0575	5 6666	0.271 9793	2 4582
7	12	0.711 4803	6 1562	0.632 7241	5 6185	0.274 4375	2 4373
8	0	0.705 3241	6 2103	0.638 3426	5 5698	0.276 8748	2 4162
8	12	0.699 1138	6 2639	0.643 9124	5 5206	0.279 2910	2 3948
9	0	0.692 8499	6 3170	0.649 4330	5 4710	0.281 6858	2 3732
9	12	—0.686 5329	6 3697	—0.654 9040	5 4208	—0.284 0590	2 3515
10	0	0.680 1632	6 4218	0.660 3248	5 3702	0.286 4105	2 3295
10	12	0.673 7414	6 4734	0.665 6950	5 3192	0.288 7400	2 3074
11	0	0.667 2680	6 5244	0.671 0142	5 2677	0.291 0474	2 2850
11	12	0.660 7436	6 5751	0.676 2819	5 2158	0.293 3324	2 2624
12	0	0.654 1685	6 6251	0.681 4977	5 1634	0.295 5948	2 2396
12	12	—0.647 5434	6 6745	—0.686 6611	5 1105	—0.297 8344	2 2167
13	0	0.640 8689	6 7234	0.691 7716	5 0573	0.300 0511	2 1936
13	12	0.634 1455	6 7719	0.696 8289	5 0038	0.302 2447	2 1703
14	0	0.627 3736	6 8197	0.701 8327	4 9498	0.304 4150	2 1469
14	12	0.620 5539	6 8669	0.706 7825	4 8955	0.306 5619	2 1233
15	0	0.613 6870	6 9136	0.711 6780	4 8408	0.308 6852	2 0995
15	12	—0.606 7734	6 9598	—0.716 5188	4 7857	—0.310 7847	2 0755
16	0	0.599 8136	7 0054	0.721 3045	4 7302	0.312 8602	2 0514
16	12	0.592 8082	7 0505	0.726 0347	4 6745	0.314 9116	2 0273
17	0	0.585 7577	7 0951	0.730 7092	4 6183	0.316 9389	2 0029
17	12	0.578 6626	7 1390	0.735 3275	4 5618	0.318 9418	1 9783
18	0	0.571 5236	7 1825	0.739 8893	4 5050	0.320 9201	1 9536
18	12	—0.564 3411	7 2253	—0.744 3943	4 4478	—0.322 8737	1 9289
19	0	0.557 1158	7 2677	0.748 8421	4 3904	0.324 8026	1 9039
19	12	0.549 8481	7 3095	0.753 2325	4 3326	0.326 7065	1 8789
20	0	0.542 5386	7 3507	0.757 5651	4 2745	0.328 5854	1 8537
20	12	0.535 1879	7 3914	0.761 8396	4 2161	0.330 4391	1 8284
21	0	0.527 7965	7 4315	0.766 0557	4 1573	0.332 2675	1 8029
21	12	—0.520 3650	7 4711	—0.770 2130	4 0983	—0.334 0704	1 7772
22	0	0.512 8939	7 5102	0.774 3113	4 0390	0.335 8476	1 7515
22	12	0.505 3837	7 5487	0.778 3503	3 9793	0.337 5991	1 7257
23	0	0.497 8350	7 5866	0.782 3296	3 9194	0.339 3248	1 6997
23	12	0.490 2484	7 6241	0.786 2490	3 8592	0.341 0245	1 6736
24	0	—0.482 6243	—12586	—0.790 1082	—	—0.342 6981	—

		Mittleres Äquinoktium 1931.0					
Welt-Zeit		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Nov. 24	0 ^h	—0.482 6243 _{7 6609}	—12586	—0.790 1082 _{3 7986}	+6480	—0.342 6981 _{1 6474}	+2818
24	12	0.474 9634 _{7 6972}		0.793 9068 _{3 7379}		0.344 3455 _{1 6210}	
25	0	0.467 2662 _{7 7329}	12707	0.797 6447 _{3 6768}	6274	0.345 9665 _{1 5945}	2728
25	12	0.459 5333 _{7 7681}		0.801 3215 _{3 6155}		0.347 5610 _{1 5680}	
26	0	0.451 7652 _{7 8028}	12823	0.804 9370 _{3 5538}	6066	0.349 1290 _{1 5413}	2638
26	12	0.443 9624 _{7 8368}		0.808 4908 _{3 4919}		0.350 6703 _{1 5145}	
27	0	—0.436 1256 _{7 8703}	—12936	—0.811 9827 _{3 4297}	+5856	—0.352 1848 _{1 4876}	+2547
27	12	0.428 2553 _{7 9034}		0.815 4124 _{3 3673}		0.353 6724 _{1 4605}	
28	0	0.420 3519 _{7 9358}	13044	0.818 7797 _{3 3045}	5645	0.355 1329 _{1 4334}	2455
28	12	0.412 4161 _{7 9677}		0.822 0842 _{3 2415}		0.356 5663 _{1 4061}	
29	0	0.404 4484 _{7 9990}	13149	0.825 3257 _{3 1783}	5432	0.357 9724 _{1 3786}	2362
29	12	0.396 4494 _{8 0298}		0.828 5040 _{3 1147}		0.359 3510 _{1 3511}	
30	0	—0.388 4196 _{8 0600}	—13249	—0.831 6187 _{3 0509}	+5217	—0.360 7021 _{1 3234}	+2268
30	12	0.380 3596 _{8 0896}		0.834 6696 _{2 9868}		0.362 0255 _{1 2957}	
Dez. 1	0	0.372 2700 _{8 1186}	13346	0.837 6564 _{2 9224}	5000	0.363 3212 _{1 2678}	2174
1	12	0.364 1514 _{8 1470}		0.840 5788 _{2 8577}		0.364 5890 _{1 2398}	
2	0	0.356 0044 _{8 1749}	13438	0.843 4365 _{2 7928}	4782	0.365 8288 _{1 2117}	2079
2	12	0.347 8295 _{8 2022}		0.846 2293 _{2 7276}		0.367 0405 _{1 1834}	
3	0	—0.339 6273 _{8 2288}	—13526	—0.848 9569 _{2 6621}	+4563	—0.368 2239 _{1 1550}	+1984
3	12	0.331 3985 _{8 2549}		0.851 6190 _{2 5964}		0.369 3789 _{1 1265}	
4	0	0.323 1436 _{8 2802}	13610	0.854 2154 _{2 5303}	4342	0.370 5054 _{1 0978}	1888
4	12	0.314 8634 _{8 3051}		0.856 7457 _{2 4642}		0.371 6032 _{1 0691}	
5	0	0.306 5583 _{8 3292}	13690	0.859 2099 _{2 3977}	4120	0.372 6723 _{1 0403}	1791
5	12	0.298 2291 _{8 3527}		0.861 6076 _{2 3309}		0.373 7126 _{1 0113}	
6	0	—0.289 8764 _{8 3754}	—13765	—0.863 9385 _{2 2639}	+3896	—0.374 7239 ₉₈₂₂	+1694
6	12	0.281 5010 _{8 3977}		0.866 2024 _{2 1967}		0.375 7061 ₉₅₃₁	
7	0	0.273 1033 _{8 4191}	13836	0.868 3991 _{2 1292}	3671	0.376 6592 ₉₂₃₈	1596
7	12	0.264 6842 _{8 4399}		0.870 5283 _{2 0616}		0.377 5830 ₈₉₄₄	
8	0	0.256 2443 _{8 4600}	13903	0.872 5899 _{1 9937}	3445	0.378 4774 ₈₆₄₉	1498
8	12	0.247 7843 _{8 4794}		0.874 5836 _{1 9257}		0.379 3423 ₈₃₅₄	
9	0	—0.239 3049 _{8 4981}	—13966	—0.876 5093 _{1 8574}	+3218	—0.380 1777 ₈₀₅₈	+1399
9	12	0.230 8068 _{8 5161}		0.878 3667 _{1 7890}		0.380 9835 ₇₇₆₀	
10	0	0.222 2907 _{8 5333}	14024	0.880 1557 _{1 7204}	2990	0.381 7595 ₇₄₆₂	1300
10	12	0.213 7574 _{8 5499}		0.881 8761 _{1 6518}		0.382 5057 ₇₁₆₄	
11	0	0.205 2075 _{8 5657}	14078	0.883 5279 _{1 5829}	2761	0.383 2221 ₆₈₆₅	1201
11	12	0.196 6418 _{8 5808}		0.885 1108 _{1 5140}		0.383 9086 ₆₅₆₆	
12	0	—0.188 0610 _{8 5952}	—14128	—0.886 6248 _{1 4449}	+2531	—0.384 5652 ₆₂₆₆	+1101
12	12	0.179 4658 _{8 6090}		0.888 0697 _{1 3757}		0.385 1918 ₅₉₆₅	
13	0	0.170 8568 _{8 6220}	14173	0.889 4454 _{1 3064}	2300	0.385 7883 ₅₆₆₄	1000
13	12	0.162 2348 _{8 6343}		0.890 7518 _{1 2371}		0.386 3547 ₅₃₆₄	
14	0	0.153 6005 _{8 6459}	—14214	—0.891 9889 _{1 1677}	+2069	—0.386 8911 ₅₀₆₂	+900
14	12	—0.144 9546		—0.893 1566		—0.387 3973	

Welt-Zeit		Mittleres Äquinoktium 1931.0					
		X	Red. auf 1925.0	Y	Red. auf 1925.0	Z	Red. auf 1925.0
1931							
Dez. 14	12 ^h	—0.144 9546	8 6568	—0.893 1566	1 0982	—0.387 3973	4761
15	0	0.136 2978	8 6670	—14250 0.894 2548	1 0287	0.387 8734	4458
15	12	0.127 6308	8 6767	0.895 2835	9590	0.388 3192	4157
16	0	0.118 9541	8 6855	—14282 0.896 2425	8893	0.388 7349	3854
16	12	0.110 2686	8 6938	0.897 1318	8197	0.389 1203	3552
17	0	0.101 5748	8 7012	—14309 0.897 9515	7499	0.389 4755	3250
17	12	—0.092 8736	8 7080	—0.898 7014	6802	—0.389 8005	2947
18	0	0.084 1656	8 7141	—14332 0.899 3816	6103	0.390 0952	2644
18	12	0.075 4515	8 7198	0.899 9919	5405	0.390 3596	2341
19	0	0.066 7317	8 7246	—14351 0.900 5324	4706	0.390 5937	2038
19	12	0.058 0071	8 7287	0.901 0030	4008	0.390 7975	1736
20	0	0.049 2784	8 7322	—14365 0.901 4038	3309	0.390 9711	1432
20	12	—0.040 5462	8 7351	—0.901 7347	2612	—0.391 1143	1130
21	0	0.031 8111	8 7372	—14375 0.901 9959	1912	0.391 2273	827
21	12	0.023 0739	8 7389	0.902 1871	1214	0.391 3100	524
22	0	0.014 3350	8 7397	—14380 0.902 3085	514	0.391 3624	221
22	12	—0.005 5953	8 7399	0.902 3599	184	0.391 3845	81
23	0	+0.003 1446	8 7395	—14381 0.902 3415	883	0.391 3764	384
23	12	+0.011 8841	8 7386	—0.902 2532	1581	—0.391 3380	687
24	0	0.020 6227	8 7368	—14377 0.902 0951	2278	0.391 2693	989
24	12	0.029 3595	8 7346	0.901 8673	2977	0.391 1704	1291
25	0	0.038 0941	8 7316	—14369 0.901 5696	3673	0.391 0413	1593
25	12	0.046 8257	8 7280	0.901 2023	4372	0.390 8820	1895
26	0	0.055 5537	8 7238	—14356 0.900 7651	5069	0.390 6925	2197
26	12	+0.064 2775	8 7190	—0.900 2582	5765	—0.390 4728	2500
27	0	0.072 9965	8 7135	—14339 0.899 6817	6462	0.390 2228	2801
27	12	0.081 7100	8 7074	0.899 0355	7158	0.389 9427	3103
28	0	0.090 4174	8 7006	—14317 0.898 3197	7854	0.389 6324	3404
28	12	0.099 1180	8 6933	0.897 5343	8551	0.389 2920	3706
29	0	0.107 8113	8 6853	—14291 0.896 6792	9246	0.388 9214	4007
29	12	+0.116 4966	8 6766	—0.895 7546	9941	—0.388 5207	4309
30	0	0.125 1732	8 6672	—14261 0.894 7605	1 0636	0.388 0898	4610
30	12	0.133 8404	8 6573	0.893 6969	1 1331	0.387 6288	4911
31	0	0.142 4977	8 6466	—14226 0.892 5638	1 2025	0.387 1377	5212
31	12	0.151 1443	8 6353	0.891 3613	1 2719	0.386 6165	5513
32	0	+0.159 7796	—14187	—0.890 0894	—2133	—0.386 0652	—927

Frühlingsäquinoktium	21. März	14 ^h	7 ^m	Herbstäquinoktium	24. Sept.	0 ^h	24 ^m
Sommersolstitium	22. Juni	9	28	Wintersolstitium	22. Dez.	19	30

Erdnähe	3. Jan.	10 ^h
Erdferne	5. Juli	22

Tag	O ^b Welt-Zeit			
	Aberration	Parallaxe	Mittlere Länge L_{\odot}	Mittlere Anomalie M_{\odot}
1931				
Jan. — 7	20.81	8.95	271.8035	350.05
+ 3	20.82	8.95	281.6600	359.90
13	20.81	8.95	291.5165	9.76
23	20.80	8.94	301.3729	19.61
Febr. 2	20.77	8.93	311.2294	29.47
12	20.74	8.91	321.0859	39.32
22	20.69	8.90	330.9424	49.18
März 4	20.64	8.87	340.7988	59.04
14	20.59	8.85	350.6553	68.89
24	20.53	8.83	0.5118	78.75
April 3	20.47	8.80	10.3683	88.60
13	20.41	8.78	20.2247	98.46
23	20.36	8.75	30.0812	108.32
Mai 3	20.31	8.73	39.9377	118.17
13	20.26	8.71	49.7941	128.03
23	20.22	8.69	59.6506	137.88
Juni 2	20.18	8.68	69.5071	147.74
12	20.16	8.67	79.3636	157.60
22	20.14	8.66	89.2200	167.45
Juli 2	20.13	8.66	99.0765	177.31
12	20.14	8.66	108.9330	187.16
22	20.15	8.66	118.7895	197.02
Aug. 1	20.17	8.67	128.6459	206.88
11	20.20	8.68	138.5024	216.73
21	20.23	8.70	148.3589	226.59
31	20.28	8.72	158.2154	236.44
Sept. 10	20.33	8.74	168.0718	246.30
20	20.38	8.76	177.9283	256.16
30	20.44	8.79	187.7848	266.01
Okt. 10	20.50	8.81	197.6412	275.87
20	20.56	8.84	207.4977	285.72
30	20.61	8.86	217.3542	295.58
Nov. 9	20.67	8.88	227.2107	305.44
19	20.71	8.90	237.0671	315.29
29	20.75	8.92	246.9236	325.15
Dez. 9	20.78	8.93	256.7801	335.00
19	20.81	8.94	266.6366	344.86
29	20.82	8.95	276.4930	354.72
39	20.82	8.95	286.3495	4.57

Phasen des Mondes

1931		Welt-Zeit	
Jan.	4	13 ^h 14.9 ^m	Vollmond
	11	5 9.2	Letztes Viertel
	18	18 35.6	Neumond
	27	0 5.5	Erstes Viertel
Febr.	3	0 25.9	Vollmond
	9	16 9.6	Letztes Viertel
	17	13 10.8	Neumond
	25	16 41.9	Erstes Viertel
März	4	10 36.1	Vollmond
	11	5 15.2	Letztes Viertel
	19	7 50.6	Neumond
	27	5 4.2	Erstes Viertel
April	2	20 5.5	Vollmond
	9	20 15.2	Letztes Viertel
	18	0 59.7	Neumond
	25	13 40.1	Erstes Viertel
Mai	2	5 14.4	Vollmond
	9	12 48.2	Letztes Viertel
	17	15 27.9	Neumond
	24	19 38.8	Erstes Viertel
	31	14 33.0	Vollmond
Juni	8	6 18.2	Letztes Viertel
	16	3 1.7	Neumond
	23	0 23.2	Erstes Viertel
	30	0 46.9	Vollmond

1931		Welt-Zeit	
Juli	7	23 ^h 51.6 ^m	Letztes Viertel
	15	12 20.0	Neumond
	22	5 16.1	Erstes Viertel
	29	12 47.5	Vollmond
Aug.	6	16 27.8	Letztes Viertel
	13	20 27.0	Neumond
	20	11 36.3	Erstes Viertel
	28	3 9.5	Vollmond
Sept.	5	7 21.2	Letztes Viertel
	12	4 26.4	Neumond
	18	20 37.3	Erstes Viertel
	26	19 44.9	Vollmond
Okt.	4	20 15.1	Letztes Viertel
	11	13 5.9	Neumond
	18	9 20.0	Erstes Viertel
	26	13 33.9	Vollmond
Nov.	3	7 17.5	Letztes Viertel
	9	22 55.4	Neumond
	17	2 13.4	Erstes Viertel
	25	7 9.9	Vollmond
Dez.	2	16 50.5	Letztes Viertel
	9	10 16.0	Neumond
	16	22 42.9	Erstes Viertel
	24	23 23.5	Vollmond
	32	1 23.1	Letztes Viertel

Mond in Erdnähe

1931		Welt-Zeit
Jan.	6	14.8 ^h
Febr.	3	22.4
März	4	10.7
April	1	22.1
April	30	3.5
Mai	27	16.3
Juni	22	1.0
Juli	18	12.4
Aug.	15	9.9
Sept.	12	17.4
Okt.	11	4.5
Nov.	8	15.0
Dez.	6	18.1

Mond in Erdferne

1931		Welt-Zeit
Jan.	22	13.3 ^h
Febr.	18	21.7
März	17	22.8
April	14	8.6
Mai	12	1.3
Juni	8	19.9
Juli	6	14.5
Aug.	3	7.8
Aug.	30	21.4
Sept.	27	2.7
Okt.	24	4.9
Nov.	20	16.8
Dez.	18	11.7

Tag	0 ^h Welt-Zeit					
	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1931						
Jan. 0	2 ^h 30 ^m 23 ^s 51 ^m 25 ^s	+16° 39.9 4 41.3	56' 22.8 50.5	15' 23.2 13.8	40.588	+1.748
1	3 21 48 56 14	+21 21.2 3 45.0	57 13.3 52.2	15 37.0 14.2	53.578	+2.766
2	4 18 2 61 0	+25 6.2 2 24.2	58 5.5 49.7	15 51.2 13.5	67.013	+3.665
3	5 19 2 64 28	+27 30.4 0 40.7	58 55.2 42.4	16 4.7 11.6	80.899	+4.379
4	6 23 30 65 31	+28 11.1 1 15.1	59 37.6 31.1	16 16.3 8.5	95.195	+4.841
5	7 29 1 63 52	+26 56.0 3 7.9	60 8.7 16.9	16 24.8 4.6	109.810	+5.000
6	8 32 53 60 24	+23 48.1 4 42.3	60 25.6 1.7	16 29.4 0.4	124.616	+4.829
7	9 33 17 56 27	+19 5.8 5 49.8	60 27.3 12.3	16 29.8 3.3	139.468	+4.332
8	10 29 44 53 1	+13 16.0 6 29.4	60 15.0 23.6	16 26.5 6.5	154.225	+3.547
9	11 22 45 50 43	+ 6 46.6 6 43.4	59 51.4 31.5	16 20.0 8.5	168.780	+2.539
10	12 13 28 49 40	+ 0 3.2 6 35.7	59 19.9 35.8	16 11.5 9.8	183.066	+1.387
11	13 3 8 49 54	— 6 32.5 6 9.6	58 44.1 37.2	16 1.7 10.1	197.055	+0.174
12	13 53 2 51 9	—12 42.1 5 26.7	58 6.9 36.6	15 51.6 10.0	210.750	—1.026
13	14 44 11 53 4	—18 8.8 4 28.5	57 30.3 34.7	15 41.6 9.4	224.177	—2.144
14	15 37 15 55 8	—22 37.3 3 16.3	56 55.6 32.2	15 32.2 8.8	237.365	—3.125
15	16 32 23 56 38	—25 53.6 1 53.3	56 23.4 29.7	15 23.4 8.1	250.342	—3.926
16	17 29 1 56 59	—27 46.9 0 24.8	55 53.7 27.1	15 15.3 7.4	263.131	—4.516
17	18 26 0 55 51	—28 11.7 1 2.0	55 26.6 24.4	15 7.9 6.7	275.746	—4.874
18	19 21 51 53 28	—27 9.7 2 20.5	55 2.2 21.4	15 1.2 5.8	288.192	—4.994
19	20 15 19 50 27	—24 49.2 3 26.0	54 40.8 17.6	14 55.4 4.8	300.475	—4.879
20	21 5 46 47 21	—21 23.2 4 16.9	54 23.2 13.1	14 50.6 3.5	312.601	—4.542
21	21 53 7 44 44	—17 6.3 4 53.8	54 10.1 7.3	14 47.1 2.0	324.587	—4.006
22	22 37 51 42 50	—12 12.5 5 18.5	54 2.8 0.4	14 45.1 0.1	336.460	—3.298
23	23 20 41 41 51	— 6 54.0 5 32.7	54 2.4 7.6	14 45.0 2.0	348.259	—2.451
24	0 2 32 41 54	— 1 21.3 5 37.2	54 10.0 16.8	14 47.0 4.6	0.043	—1.496
25	0 44 26 43 0	+ 4 15.9 5 32.5	54 26.8 26.4	14 51.6 7.2	11.879	—0.471
26	1 27 26 45 14	+ 9 48.4 5 17.1	54 53.2 36.2	14 58.8 9.9	23.851	+0.588
27	2 12 40 48 38	+15 5.5 4 48.3	55 29.4 45.3	15 8.7 12.3	36.048	+1.641
28	3 1 18 52 58	+19 53.8 4 2.1	56 14.7 52.7	15 21.0 14.4	48.559	+2.643
29	3 54 16 57 48	+23 55.9 2 54.7	57 7.4 57.3	15 35.4 15.6	61.472	+3.543
30	4 52 4 62 11	+26 50.6 1 24.1	58 4.7 57.7	15 51.0 15.7	74.850	+4.283
31	5 54 15 64 53	+28 14.7 0 25.4	59 2.4 52.9	16 6.7 14.4	88.728	+4.801
Febr. 1	6 59 8 65 4	+27 49.3 2 22.3	59 55.3 42.6	16 21.1 11.6	103.092	+5.041
2	8 4 12 62 57	+25 27.0 4 10.5	60 37.9 27.1	16 32.7 7.4	117.872	+4.956
3	9 7 9 59 30	+21 16.5 5 36.3	61 5.0 8.4	16 40.1 2.3	132.942	+4.529
4	10 6 39 56 1	+15 40.2 6 32.6	61 13.4 10.7	16 42.4 2.9	148.137	+3.779
5	11 2 40 53 16	+ 9 7.6 6 58.4	61 2.7 27.6	16 39.5 7.6	163.278	+2.765
6	11 55 56 51 42	+ 2 9.2 6 56.9	60 35.1 40.4	16 31.9 11.0	178.211	+1.570
7	12 47 38 51 19	— 4 47.7 6 32.0	59 54.7 48.0	16 20.9 13.0	192.820	+0.294
8	13 38 57 52 1	—11 19.7 5 47.9	59 6.7 50.7	16 7.9 13.9	207.044	—0.969
9	14 30 58 53 27	—17 7.6 4 47.7	58 16.0 49.6	15 54.0 13.5	220.867	—2.142
10	15 24 25	—21 55.3	57 26.4	15 40.5	234.309	—3.163

Tag	Obere Kulmination in Greenwich							0 ^h Länge, + 50° Breite			
	AR.	Ände- rung für 1 ^h westl. Länge	Dekl.	Ände- rung für 1 ^h westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 ^h westl. Länge	Auf- gang	Ände- rung für 1 ^h westl. Länge	Unter- gang	Ände- rung für 1 ^h westl. Länge
1931											
Jan. 0	3 ^h 14 ^m 14 ^s	137 ^s	+20° 44.3	+11.4	57.1	20 ^h 36.1 ^m	2.12 ^m	12 ^h 43 ^m	0.9 ^m	3 ^h 29 ^m	3.2 ^m
1	4 11 56	151	+24 46.1	+ 8.5	58.0	21 29.7	2.35	13 7	1.2	4 49	3.4
2	5 15 2	164	+27 24.1	+ 4.4	58.9	22 28.7	2.55	13 41	1.8	6 10	3.3
3	6 22 13	171	+28 11.4	— 0.6	59.6	23 31.7	2.67	14 32	2.5	7 26	2.9
4	—	—	—	—	—	—	—	15 41	3.2	8 30	2.3
5	7 30 38	170	+26 52.6	— 5.9	60.2	0 36.0	2.65	17 4	3.6	9 18	1.7
6	8 37 8	162	+23 31.5	—10.7	60.4	1 38.4	2.53	18 35	3.8	9 52	1.2
7	9 39 37	150	+18 30.5	—14.2	60.4	2 36.8	2.34	20 6	3.7	10 16	0.9
8	10 37 41	140	+12 20.8	—16.4	60.2	3 30.8	2.17	21 33	3.5	10 35	0.7
9	11 32 5	132	+ 5 33.8	—17.3	59.8	4 21.1	2.04	22 56	3.4	10 51	0.6
10	12 24 10	129	— 1 23.1	—17.2	59.2	5 9.1	1.98	—	—	11 5	0.6
11	13 15 25	128	— 8 7.1	—16.3	58.6	5 56.3	1.97	0 18	3.4	11 20	0.6
12	14 7 13	131	—14 18.7	—14.6	57.9	6 44.0	2.02	1 39	3.4	11 36	0.7
13	15 0 40	136	—19 40.3	—12.1	57.3	7 33.4	2.10	3 0	3.4	11 56	0.9
14	15 56 22	142	—23 55.0	— 9.0	56.7	8 25.0	2.20	4 21	3.3	12 21	1.2
15	16 54 14	147	—26 47.9	— 5.3	56.2	9 18.8	2.27	5 37	3.0	12 56	1.7
16	17 53 21	148	—28 8.4	— 1.4	55.7	10 13.8	2.30	6 45	2.5	13 42	2.2
17	18 52 9	145	—27 53.3	+ 2.6	55.2	11 8.5	2.25	7 39	2.0	14 40	2.6
18	19 48 59	139	—26 8.4	+ 6.1	54.9	12 1.3	2.14	8 20	1.5	15 48	2.9
19	20 42 43	130	—23 6.1	+ 9.0	54.5	12 50.9	2.00	8 50	1.1	17 0	3.0
20	21 33 0	122	—19 2.8	+11.2	54.3	13 37.1	1.86	9 11	0.8	18 13	3.0
21	22 20 7	114	—14 14.4	+12.7	54.1	14 20.2	1.74	9 28	0.6	19 23	2.9
22	23 4 48	110	— 8 55.4	+13.8	54.0	15 0.8	1.66	9 42	0.5	20 32	2.9
23	23 48 3	107	— 3 17.8	+14.3	54.1	15 40.0	1.62	9 53	0.5	21 40	2.8
24	0 30 57	108	+ 2 28.0	+14.4	54.3	16 18.9	1.63	10 5	0.5	22 48	2.9
25	1 14 40	111	+ 8 12.2	+14.2	54.7	16 58.5	1.69	10 16	0.5	23 57	2.9
26	2 0 28	118	+13 44.1	+13.4	55.3	17 40.3	1.80	10 29	0.6	—	—
27	2 49 38	128	+18 50.2	+12.0	56.1	18 25.4	1.97	10 44	0.7	1 9	3.1
28	3 43 24	141	+23 12.7	+ 9.7	56.9	19 15.1	2.18	11 5	1.0	2 25	3.2
29	4 42 31	154	+26 28.2	+ 6.4	57.9	20 10.1	2.40	11 33	1.4	3 44	3.3
30	5 46 44	166	+28 10.2	+ 1.9	58.9	21 10.2	2.59	12 14	2.1	5 2	3.1
31	6 54 18	171	+27 55.2	— 3.3	59.9	22 13.6	2.67	13 13	2.8	6 11	2.6
Febr. 1	8 2 19	168	+25 32.8	— 8.5	60.6	23 17.5	2.63	14 30	3.5	7 7	2.0
2	—	—	—	—	—	—	—	16 0	3.8	7 47	1.4
3	9 7 57	159	+21 12.6	—13.0	61.1	0 19.1	2.49	17 34	3.9	8 16	1.1
4	10 9 43	149	+15 20.4	—16.1	61.2	1 16.7	2.32	19 6	3.7	8 38	0.8
5	11 7 35	140	+ 8 30.3	—17.8	61.0	2 10.5	2.17	20 34	3.6	8 55	0.7
6	12 2 30	135	+ 1 16.1	—18.2	60.5	3 1.3	2.08	22 0	3.5	9 10	0.6
7	12 55 51	133	— 5 52.7	—17.4	59.8	3 50.6	2.04	23 24	3.5	9 25	0.6
8	13 48 58	134	—12 31.3	—15.7	58.9	4 39.7	2.06	—	—	9 41	0.7
9	14 43 4	137	—18 19.3	—13.2	58.1	5 29.7	2.12	0 48	3.5	9 59	0.9
10	15 38 51	142	—22 59.6	—10.1	57.2	6 21.4	2.19	2 11	3.4	10 23	1.2

Tag	Ob Welt-Zeit					
	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1931						
Febr. 10	15 ^h 24 ^m 25 ^s 55 ^m 6 ^s	—21° 55.3 3 34.2	57 26.4 45.8	15 40.5 12.4	234.309	—3.163
11	16 19 31 56 23	—25 29.5 2 10.9	56 40.6 40.3	15 28.1 11.0	247.409	—3.990
12	17 15 54 56 42	—27 40.4 0 42.9	56 0.3 34.3	15 17.1 9.4	260.217	—4.597
13	18 12 36 55 45	—28 23.3 0 43.9	55 26.0 28.2	15 7.7 7.6	272.782	—4.968
14	19 8 21 53 39	—27 39.4 2 3.6	54 57.8 22.4	15 0.1 6.1	285.148	—5.100
15	20 2 0 50 49	—25 35.8 3 11.8	54 35.4 17.2	14 54.0 4.7	297.352	—4.996
16	20 52 49 47 51	—22 24.0 4 6.3	54 18.2 12.1	14 49.3 3.3	309.423	—4.670
17	21 40 40 45 13	—18 17.7 4 47.2	54 6.1 7.2	14 46.0 2.0	321.387	—4.139
18	22 25 53 43 13	—13 30.5 5 15.4	53 58.9 2.2	14 44.0 0.6	333.266	—3.430
19	23 9 6 42 1	—8 15.1 5 32.1	53 56.7 3.4	14 43.4 0.9	345.086	—2.575
20	23 51 7 41 42	—2 43.0 5 38.5	54 0.1 9.6	14 44.3 2.6	356.881	—1.608
21	0 32 49 42 23	+ 2 55.5 5 34.7	54 9.7 16.6	14 46.9 4.6	8.690	—0.568
22	1 15 12 44 3	+ 8 30.2 5 20.3	54 26.3 24.4	14 51.5 6.6	20.564	+0.505
23	1 59 15 46 45	+13 50.5 4 53.9	54 50.7 32.6	14 58.1 8.9	32.566	+1.569
24	2 46 0 50 22	+18 44.4 4 12.7	55 23.3 41.0	15 7.0 11.2	44.766	+2.580
25	3 36 22 54 36	+22 57.1 3 13.9	56 4.3 48.7	15 18.2 13.2	57.242	+3.494
26	4 30 58 58 50	+26 11.0 1 55.2	56 53.0 54.6	15 31.4 14.9	70.071	+4.260
27	5 29 48 62 7	+28 6.2 0 17.8	57 47.6 57.6	15 46.3 15.7	83.322	+4.827
28	6 31 55 63 32	+28 24.0 1 31.9	58 45.2 56.2	16 2.0 15.3	97.042	+5.143
März 1	7 35 27 62 51	+26 52.1 3 22.0	59 41.4 49.5	16 17.3 13.5	111.246	+5.162
2	8 38 18 60 34	+23 30.1 4 59.5	60 30.9 36.8	16 30.8 10.0	125.898	+4.849
3	9 38 52 57 42	+18 30.6 6 13.8	61 7.7 19.3	16 40.8 5.3	140.909	+4.202
4	10 36 34 55 11	+12 16.8 6 59.2	61 27.0 1.1	16 46.1 0.3	156.141	+3.248
5	11 31 45 53 34	+ 5 17.6 7 14.2	61 25.9 21.3	16 45.8 5.8	171.424	+2.058
6	12 25 19 53 4	— 1 56.6 7 0.7	61 4.6 38.5	16 40.0 10.5	186.581	+0.730
7	13 18 23 53 35	— 8 57.3 6 21.8	60 26.1 50.5	16 29.5 13.8	201.463	—0.627
8	14 11 58 54 52	—15 19.1 5 21.9	59 35.6 56.7	16 15.7 15.4	215.964	—1.911
9	15 6 50 56 23	—20 41.0 4 5.7	58 38.9 57.6	16 0.3 15.7	230.028	—3.040
10	16 3 13 57 32	—24 46.7 2 38.2	57 41.3 54.2	15 44.6 14.8	243.644	—3.960
11	17 0 45 57 42	—27 24.9 1 6.0	56 47.1 48.0	15 29.8 13.0	256.837	—4.640
12	17 58 27 56 36	—28 30.9 0 24.3	55 59.1 40.2	15 16.8 11.0	269.658	—5.065
13	18 55 3 54 21	—28 6.6 1 46.9	55 18.9 31.8	15 5.8 8.7	282.164	—5.238
14	19 49 24 51 24	—26 19.7 2 57.7	54 47.1 23.6	14 57.1 6.4	294.421	—5.167
15	20 40 48 48 21	—23 22.0 3 54.8	54 23.5 15.8	14 50.7 4.3	306.489	—4.867
16	21 29 9 45 36	—19 27.2 4 38.8	54 7.7 8.7	14 46.4 2.4	318.424	—4.358
17	22 14 45 43 32	—14 48.4 5 10.5	53 59.0 2.6	14 44.0 0.7	330.275	—3.664
18	22 58 17 42 13	— 9 37.9 5 30.6	53 56.4 3.0	14 43.3 0.8	342.084	—2.815
19	23 40 30 41 47	— 4 7.3 5 40.2	53 59.4 8.1	14 44.1 2.2	353.890	—1.845
20	0 22 17 42 15	+ 1 32.9 5 39.2	54 7.5 13.0	14 46.3 3.6	5.726	—0.791
21	1 4 32 43 40	+ 7 12.1 5 27.0	54 20.5 18.1	14 49.9 4.9	17.626	+0.304
22	1 48 12 45 59	+12 39.1 5 2.4	54 38.6 23.5	14 54.8 6.4	29.628	+1.396
23	2 34 11	+17 41.5	55 2.1	15 1.2	41.772	+2.438

Tag	Obere Kulmination in Greenwich							0 ^h Länge, + 50° Breite			
	AR.	Ände- rung für 1 ^h westl. Länge	Dekl.	Ände- rung für 1 ^h westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 ^h westl. Länge	Auf- gang	Ände- rung für 1 ^h westl. Länge	Unter- gang	Ände- rung für 1 ^h westl. Länge
1931											
Febr. 10	15 ^h 38 ^m 51 ^s	142 ^s	—22° 59.6	—10.1	57.2	6 ^h 21.4 ^m	2.19 ^m	2 ^h 11 ^m	3.4 ^m	10 ^h 23 ^m	1.2 ^m
11	16 36 26	146	—26 18.1	— 6.4	56.5	7 14.9	2.26	3 29	3.1	10 55	1.5
12	17 35 12	147	—28 4.9	— 2.5	55.8	8 9.5	2.28	4 40	2.7	11 37	2.0
13	18 33 51	145	—28 16.6	+ 1.5	55.2	9 4.1	2.25	5 38	2.1	12 32	2.5
14	19 30 54	139	—26 57.2	+ 5.1	54.8	9 57.1	2.15	6 22	1.6	13 37	2.8
15	20 25 13	132	—24 17.2	+ 8.1	54.5	10 47.3	2.03	6 54	1.1	14 48	3.0
16	21 16 15	123	—20 31.2	+10.6	54.2	11 34.3	1.89	7 17	0.9	16 0	3.0
17	22 4 9	116	—15 54.8	+12.4	54.0	12 18.1	1.77	7 35	0.7	17 12	3.0
18	22 49 29	111	—10 42.6	+13.6	54.0	12 59.4	1.68	7 49	0.5	18 22	2.9
19	23 33 5	108	— 5 7.6	+14.3	54.0	13 38.9	1.63	8 1	0.5	19 30	2.8
20	0 15 56	107	+ 0 38.5	+14.5	54.1	14 17.7	1.62	8 12	0.5	20 37	2.8
21	0 59 4	109	+ 6 25.0	+14.3	54.3	14 56.8	1.65	8 24	0.5	21 46	2.9
22	1 43 37	114	+12 1.0	+13.6	54.7	15 37.3	1.73	8 35	0.5	22 56	3.0
23	2 30 43	122	+17 14.3	+12.4	55.2	16 20.4	1.87	8 49	0.7	0 10	3.1
24	3 21 30	132	+21 49.8	+10.4	55.9	17 7.1	2.04	9 7	0.9	—	—
25	4 16 50	144	+25 28.9	+ 7.7	56.7	17 58.3	2.24	9 30	1.2	1 26	3.2
26	5 17 0	156	+27 49.3	+ 3.9	57.6	18 54.4	2.43	10 4	1.7	2 42	3.1
27	6 21 10	164	+28 28.5	— 0.7	58.6	19 54.4	2.56	10 53	2.4	3 54	2.8
28	7 27 21	166	+27 10.1	— 5.8	59.6	20 56.5	2.59	11 59	3.1	4 55	2.2
März 1	8 33 3	162	+23 51.2	—10.7	60.5	21 58.1	2.52	13 22	3.6	5 41	1.7
2	9 36 17	154	+18 45.4	—14.6	61.1	22 57.2	2.40	14 54	3.9	6 14	1.2
3	10 36 18	146	+12 18.7	—17.4	61.4	23 53.1	2.27	16 27	3.9	6 39	0.9
4	—	—	—	—	—	—	—	17 59	3.8	6 57	0.7
5	11 33 29	140	+ 5 3.7	—18.7	61.4	0 46.2	2.17	19 29	3.7	7 13	0.6
6	12 28 55	137	— 2 25.9	—18.6	61.0	1 37.6	2.12	20 57	3.7	7 28	0.6
7	13 23 52	138	— 9 38.8	—17.3	60.4	2 28.5	2.13	22 25	3.6	7 44	0.7
8	14 19 30	141	—16 7.8	—15.0	59.5	3 20.0	2.18	23 52	3.5	8 2	0.8
9	15 16 38	145	—21 30.1	—11.8	58.5	4 13.1	2.25	—	—	8 24	1.1
10	16 15 26	149	—25 28.1	— 8.0	57.5	5 7.8	2.31	1 15	3.3	8 53	1.4
11	17 15 21	150	—27 50.4	— 3.8	56.6	6 3.6	2.33	2 31	2.9	9 33	1.9
12	18 15 6	148	—28 32.9	+ 0.3	55.8	6 59.2	2.29	3 34	2.3	10 24	2.4
13	19 13 12	142	—27 40.0	+ 4.1	55.1	7 53.3	2.20	4 23	1.7	11 27	2.8
14	20 8 29	134	—25 22.5	+ 7.3	54.6	8 44.4	2.06	4 58	1.3	12 37	3.0
15	21 0 22	125	—21 54.8	+ 9.9	54.3	9 32.3	1.92	5 24	0.9	13 49	3.0
16	21 48 59	118	—17 32.4	+11.9	54.1	10 16.8	1.80	5 43	0.7	15 1	3.0
17	22 34 53	112	—12 29.6	+13.3	54.0	10 58.7	1.70	5 58	0.6	16 11	2.9
18	23 18 52	108	— 6 59.4	+14.2	54.0	11 38.6	1.64	6 10	0.5	17 20	2.9
19	0 1 54	107	— 1 13.6	+14.6	54.0	12 17.6	1.62	6 21	0.5	18 28	2.8
20	0 44 57	108	+ 4 36.7	+14.5	54.2	12 56.6	1.64	6 32	0.5	19 36	2.9
21	1 29 4	112	+10 19.8	+14.0	54.5	13 36.6	1.71	6 44	0.5	20 46	3.0
22	2 15 17	119	+15 43.3	+12.9	54.9	14 18.8	1.82	6 56	0.6	21 59	3.1
23	3 4 37	128	+20 32.5	+11.1	55.3	15 4.1	1.96	7 12	0.8	23 14	3.1

Tag	Oh Welt-Zeit					
	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1931						
März 23	2 ^h 34 ^m 11 ^s 49 ^m 8 ^s	+17° 41.5 4 23.6	55 2.1 29.3	15 1.2 7.8	41.772	+2.438
24	3 23 19 52 51	+22 5.1 3 28.5	55 31.4 35.2	15 9.0 9.8	54.104	+3.384
25	4 16 10 56 36	+25 33.6 2 15.8	56 6.6 41.1	15 18.8 11.2	66.674	+4.188
26	5 12 46 59 40	+27 49.4 0 46.7	56 47.7 46.2	15 30.0 12.6	79.536	+4.801
27	6 12 26 61 16	+28 36.1 0 54.2	57 33.9 49.6	15 42.6 13.5	92.738	+5.181
28	7 13 42 61 6	+27 41.9 2 38.2	58 23.5 50.1	15 56.1 13.6	106.322	+5.286
29	8 14 48 59 30	+25 3.7 4 15.5	59 13.6 46.7	16 9.7 12.8	120.306	+5.088
30	9 14 18 57 13	+20 48.2 5 36.7	60 0.3 38.4	16 22.5 10.4	134.683	+4.571
31	10 11 31 55 4	+15 11.5 6 35.7	60 38.7 25.1	16 32.9 6.9	149.403	+3.745
April 1	11 6 35 53 41	+ 8 35.8 7 8.4	61 3.8 7.9	16 39.8 2.1	164.378	+2.651
2	12 0 16 53 20	+ 1 27.4 7 13.0	61 11.7 11.1	16 41.9 3.0	179.482	+1.364
3	12 53 36 54 3	— 5 45.6 6 49.7	61 0.6 29.2	16 38.9 8.0	194.566	—0.018
4	13 47 39 55 36	—12 35.3 6 0.0	60 31.4 43.8	16 30.9 11.9	209.482	—1.383
5	14 43 15 57 31	—18 35.3 4 47.7	59 47.6 53.4	16 19.0 14.5	224.100	—2.631
6	15 40 46 59 5	—23 23.0 3 18.7	58 54.2 57.4	16 4.5 15.7	238.329	—3.680
7	16 39 51 59 36	—26 41.7 1 41.1	57 56.8 56.4	15 48.8 15.4	252.119	—4.481
8	17 39 27 58 35	—28 22.8 0 3.5	57 0.4 51.6	15 33.4 14.0	265.463	—5.010
9	18 38 2 56 11	—28 26.3 1 25.6	56 8.8 43.9	15 19.4 12.0	278.389	—5.265
10	19 34 13 52 54	—27 0.7 2 41.5	55 24.9 35.0	15 7.4 9.5	290.949	—5.259
11	20 27 7 49 27	—24 19.2 3 42.5	54 49.9 25.2	14 57.9 6.9	303.210	—5.011
12	21 16 34 46 21	—20 36.7 4 29.2	54 24.7 15.8	14 51.0 4.3	315.247	—4.546
13	22 2 55 43 58	—16 7.5 5 3.3	54 8.9 6.9	14 46.7 1.8	327.134	—3.891
14	22 46 53 42 26	—11 4.2 5 26.4	54 2.0 1.1	14 44.9 0.2	338.942	—3.075
15	23 29 19 41 51	— 5 37.8 5 39.2	54 3.1 7.8	14 45.1 2.2	350.735	—2.129
16	0 11 10 42 11	+ 0 1.4 5 41.8	54 10.9 13.6	14 47.3 3.7	2.569	—1.089
17	0 53 21 43 29	+ 5 43.2 5 33.4	54 24.5 18.1	14 51.0 4.9	14.491	+0.006
18	1 36 50 45 42	+11 16.6 5 12.5	54 42.6 22.0	14 55.9 6.0	26.539	+1.110
19	2 22 32 48 44	+16 29.1 4 36.7	55 4.6 25.3	15 1.9 6.9	38.746	+2.178
20	3 11 16 52 18	+21 5.8 3 44.3	55 29.9 28.1	15 8.8 7.7	51.137	+3.158
21	4 3 34 55 53	+24 50.1 2 34.2	55 58.0 31.0	15 16.5 8.4	63.732	+4.001
22	4 59 27 58 47	+27 24.3 1 8.1	56 29.0 33.6	15 24.9 9.1	76.551	+4.659
23	5 58 14 60 16	+28 32.4 0 29.1	57 2.6 35.9	15 34.0 9.8	89.612	+5.090
24	6 58 30 60 1	+28 3.3 2 9.2	57 38.5 37.5	15 43.8 10.2	102.931	+5.258
25	7 58 31 58 22	+25 54.1 3 42.9	58 16.0 37.5	15 54.0 10.3	116.522	+5.140
26	8 56 53 56 2	+22 11.2 5 3.2	58 53.5 35.3	16 4.3 9.6	130.391	+4.723
27	9 52 55 53 51	+17 8.0 6 5.0	59 28.8 30.0	16 13.9 8.2	144.532	+4.016
28	10 46 46 52 23	+11 3.0 6 45.6	59 58.8 21.3	16 22.1 5.7	158.924	+3.046
29	11 39 9 52 0	+ 4 17.4 7 3.0	60 20.1 9.1	16 27.8 2.5	173.517	+1.867
30	12 31 9 52 44	— 2 45.6 6 55.3	60 29.2 5.3	16 30.3 1.4	188.239	+0.555
Mai 1	13 23 53 54 31	— 9 40.9 6 21.7	60 23.9 20.2	16 28.9 5.5	202.992	—0.795
2	14 18 24 56 57	—16 2.6 5 22.6	60 3.7 33.8	16 23.4 9.2	217.664	—2.083
3	15 15 21	—21 25.2	59 29.9	16 14.2	232.141	—3.218

Tag	Obere Kulmination in Greenwich							0 ^h Länge, +50° Breite			
	AR.	Änderung für 1 ^h westl. Länge	Dekl.	Änderung für 1 ^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1 ^h westl. Länge	Aufgang	Änderung für 1 ^h westl. Länge	Untergang	Änderung für 1 ^h westl. Länge
1931											
März 23	3 ^h 4 ^m 37 ^s	128 ^a	+20° 32.5	+11.1	55.3	15 ^h 4.1 ^m	1.96	7 ^h 12 ^m	0.8	23 ^h 14 ^m	3.1
24	3 57 52	138	+24 30.3	+ 8.6	55.9	15 53.2	2.14	7 34	1.1	—	—
25	4 55 22	149	+27 17.2	+ 5.2	56.6	16 46.6	2.31	8 3	1.5	0 30	3.1
26	5 56 37	157	+28 33.3	+ 1.0	57.4	17 43.8	2.44	8 44	2.1	1 42	2.8
27	7 0 10	160	+28 2.8	— 3.6	58.2	18 43.2	2.49	9 42	2.7	2 46	2.4
28	8 3 59	158	+25 39.4	— 8.3	59.1	19 43.0	2.46	10 56	3.3	3 36	1.8
29	9 6 13	153	+21 28.8	—12.5	59.9	20 41.1	2.37	12 21	3.6	4 13	1.3
30	10 5 55	146	+15 48.1	—15.8	60.6	21 36.7	2.26	13 51	3.8	4 39	1.0
31	11 3 11	141	+ 9 1.9	—17.9	61.0	22 29.9	2.18	15 22	3.8	5 0	0.8
April 1	11 58 51	138	+ 1 39.1	—18.8	61.2	23 21.4	2.13	16 52	3.7	5 17	0.7
2	—	—	—	—	—	—	—	18 21	3.7	5 32	0.6
3	12 54 4	139	— 5 49.4	—18.4	61.0	0 12.6	2.14	19 50	3.7	5 47	0.7
4	13 50 6	142	—12 52.7	—16.7	60.5	1 4.5	2.20	21 20	3.7	6 4	0.8
5	14 47 54	147	—19 1.9	—13.9	59.7	1 58.2	2.28	22 49	3.6	6 24	1.0
6	15 47 50	152	—23 52.0	—10.2	58.8	2 54.1	2.37	—	—	6 50	1.3
7	16 49 26	155	—27 4.7	— 5.8	57.8	3 51.6	2.41	0 12	3.2	7 26	1.7
8	17 51 21	154	—28 31.1	— 1.4	56.8	4 49.4	2.39	1 23	2.9	8 14	2.3
9	18 51 47	148	—28 13.5	+ 2.8	56.0	5 45.7	2.29	2 20	2.2	9 15	2.7
10	19 49 14	139	—26 22.9	+ 6.3	55.2	6 39.1	2.15	3 0	1.4	10 24	3.0
11	20 42 53	129	—23 15.7	+ 9.2	54.7	7 28.7	1.98	3 28	1.0	11 37	3.0
12	21 32 48	120	—19 8.8	+11.3	54.3	8 14.5	1.84	3 49	0.8	12 49	3.0
13	22 19 33	114	—14 17.7	+12.9	54.1	8 57.2	1.73	4 6	0.6	14 0	2.9
14	23 4 2	109	— 8 55.4	+13.9	54.0	9 37.6	1.65	4 19	0.5	15 9	2.9
15	23 47 16	107	— 3 13.5	+14.5	54.1	10 16.8	1.63	4 30	0.5	16 17	2.9
16	0 30 16	108	+ 2 37.3	+14.7	54.3	10 55.8	1.63	4 41	0.5	17 26	2.9
17	1 14 8	112	+ 8 26.0	+14.3	54.5	11 35.6	1.69	4 52	0.5	18 35	3.0
18	1 59 54	118	+14 0.1	+13.4	54.9	12 17.3	1.80	5 4	0.6	19 48	3.1
19	2 48 34	126	+19 4.8	+11.8	55.3	13 1.9	1.93	5 20	0.7	21 2	3.1
20	3 40 58	136	+23 22.6	+ 9.5	55.8	13 50.2	2.10	5 39	1.0	22 19	3.2
21	4 37 25	146	+26 34.0	+ 6.3	56.3	14 42.6	2.26	6 6	1.3	23 34	2.9
22	5 37 31	154	+28 19.3	+ 2.4	56.8	15 38.6	2.39	6 43	1.9	—	—
23	6 39 54	157	+28 22.9	— 2.1	57.5	16 36.9	2.45	7 35	2.5	0 40	2.5
24	7 42 37	156	+26 38.2	— 6.6	58.1	17 35.5	2.42	8 43	3.1	1 34	2.0
25	8 43 49	150	+23 9.5	—10.7	58.8	18 32.6	2.33	10 3	3.5	2 14	1.4
26	9 42 29	143	+18 10.8	—14.1	59.4	19 27.2	2.22	11 29	3.6	2 42	1.0
27	10 38 38	138	+12 2.1	—16.5	59.9	20 19.2	2.13	12 56	3.6	3 4	0.8
28	11 33 0	135	+ 5 6.8	—17.9	60.3	21 9.5	2.08	14 23	3.6	3 22	0.7
29	12 26 46	135	— 2 10.0	—18.3	60.5	21 59.2	2.08	15 50	3.6	3 37	0.6
30	13 21 16	138	— 9 21.1	—17.5	60.4	22 49.6	2.14	17 17	3.6	3 51	0.6
Mai 1	14 17 42	144	—15 58.1	—15.4	60.1	23 42.0	2.23	18 45	3.7	4 7	0.7
2	—	—	—	—	—	—	—	20 15	3.7	4 25	0.9
3	15 16 50	151	—21 32.5	—12.3	59.5	0 37.0	2.35	21 43	3.5	4 48	1.1

Tag	O ^h Welt-Zeit					
	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1931						
Mai 3	15 ^h 15 ^m 21 ^s 59 19	—21° 25.2 4 1.1	59 29.9 44.2	16 14.2 12.1	232.141	—3.218
4	16 14 40 60 48	—25 26.3 2 24.1	58 45.7 50.2	16 2.1 13.6	246.322	—4.128
5	17 15 28 60 35	—27 50.4 0 41.4	57 55.5 51.7	15 48.5 14.1	260.134	—4.770
6	18 16 3 58 35	—28 31.8 0 56.1	57 3.8 49.2	15 34.4 13.4	273.540	—5.129
7	19 14 38 55 13	—27 35.7 2 20.4	56 14.6 43.3	15 21.0 11.8	286.540	—5.209
8	20 9 51 51 22	—25 15.3 3 27.9	55 31.3 35.1	15 9.2 9.6	299.164	—5.032
9	21 1 13 47 45	—21 47.4 4 18.8	54 56.2 25.5	14 59.6 6.9	311.469	—4.626
10	21 48 58 44 52	—17 28.6 4 55.6	54 30.7 15.4	14 52.7 4.2	323.527	—4.021
11	22 33 50 42 52	—12 33.0 5 20.6	54 15.3 5.3	14 48.5 1.5	335.420	—3.250
12	23 16 42 41 55	— 7 12.4 5 35.6	54 10.0 4.0	14 47.0 1.1	347.230	—2.346
13	23 58 37 41 59	— 1 36.8 5 41.1	54 14.0 12.5	14 48.1 3.4	359.040	—1.342
14	0 40 36 43 6	+ 4 4.3 5 36.6	54 26.5 19.3	14 51.5 5.3	10.925	—0.276
15	1 23 42 45 12	+ 9 40.9 5 20.3	54 45.8 24.7	14 56.8 6.7	22.949	+0.812
16	2 8 54 48 14	+15 1.2 4 49.7	55 10.5 28.3	15 3.5 7.7	35.164	+1.878
17	2 57 8 51 56	+19 50.9 4 1.9	55 38.8 30.2	15 11.2 8.2	47.607	+2.873
18	3 49 4 55 47	+23 52.8 2 55.4	56 9.0 30.8	15 19.4 8.4	60.298	+3.744
19	4 44 51 58 58	+26 48.2 1 30.6	56 39.8 30.2	15 27.8 8.3	73.241	+4.439
20	5 43 49 60 42	+28 18.8 0 6.9	57 10.0 28.9	15 36.1 7.8	86.427	+4.913
21	6 44 31 60 31	+28 11.9 1 48.2	57 38.9 27.2	15 43.9 7.5	99.835	+5.126
22	7 45 2 58 39	+26 23.7 3 22.9	58 6.1 25.1	15 51.4 6.8	113.442	+5.057
23	8 43 41 55 57	+23 0.8 4 43.2	58 31.2 22.6	15 58.2 6.2	127.223	+4.697
24	9 39 38 53 18	+18 17.6 5 44.7	58 53.8 19.4	16 4.4 5.2	141.155	+4.057
25	10 32 56 51 22	+12 32.9 6 26.2	59 13.2 15.1	16 9.6 4.1	155.218	+3.168
26	11 24 18 50 30	+ 6 6.7 6 47.1	59 28.3 9.1	16 13.7 2.5	169.396	+2.078
27	12 14 48 50 52	— 0 40.4 6 46.7	59 37.4 1.5	16 16.2 0.4	183.662	+0.854
28	13 5 40 52 26	— 7 27.1 6 24.3	59 38.9 7.6	16 16.6 2.0	197.983	—0.427
29	13 58 6 54 54	—13 51.4 5 38.6	59 31.3 17.4	16 14.6 4.8	212.309	—1.680
30	14 53 0 57 46	—19 30.0 4 29.7	59 13.9 26.9	16 9.8 7.3	226.574	—2.819
31	15 50 46 60 10	—23 59.7 3 1.2	58 47.0 35.0	16 2.5 9.5	240.704	—3.772
Juni 1	16 50 56 61 8	—27 0.9 1 20.6	58 12.0 40.6	15 53.0 11.1	254.618	—4.482
2	17 52 4 60 10	—28 21.5 0 21.1	57 31.4 43.1	15 41.9 11.7	268.250	—4.921
3	18 52 14 57 21	—28 0.4 1 53.3	56 48.3 42.2	15 30.2 11.5	281.551	—5.078
4	19 49 35 53 33	—26 7.1 3 9.2	56 6.1 38.2	15 18.7 10.4	294.502	—4.969
5	20 43 8 49 36	—22 57.9 4 6.8	55 27.9 31.7	15 8.3 8.7	307.114	—4.617
6	21 32 44 46 12	—18 51.1 4 47.9	54 56.2 23.3	14 59.6 6.3	319.423	—4.057
7	22 18 56 43 40	—14 3.2 5 15.3	54 32.9 13.7	14 53.3 3.8	331.490	—3.324
8	23 2 36 42 11	— 8 47.9 5 31.7	54 19.2 3.4	14 49.5 0.9	343.390	—2.456
9	23 44 47 41 47	— 3 16.2 5 38.8	54 15.8 6.8	14 48.6 1.9	355.210	—1.488
10	0 26 34 42 29	+ 2 22.6 5 36.7	54 22.6 16.5	14 50.5 4.5	7.038	—0.456
11	1 9 3 44 18	+ 7 59.3 5 24.4	54 39.1 24.8	14 55.0 6.7	18.962	+0.604
12	1 53 21 47 8	+13 23.7 4 59.4	55 3.9 31.5	15 1.7 8.6	31.064	+1.649
13	2 40 29	+18 23.1	55 35.4	15 10.3	43.413	+2.637

Tag	Obere Kulmination in Greenwich							0 ^h Länge, + 50° Breite			
	AR.	Ände- rung für 1 ^h westl. Länge	Dekl.	Ände- rung für 1 ^h westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 ^h westl. Länge	Auf- gang	Ände- rung für 1 ^h westl. Länge	Unter- gang	Ände- rung für 1 ^h westl. Länge
1931											
Mai	3	15 ^h 16 ^m 50 ^s	151°	— 21° 32.5	— 12.3	59.5	0 37.0	2.35	21 ^h 43 ^m	3.5	4 48 ^m 1.1
	4	16 18 39	157	— 25 38.9	— 8.2	58.7	1 34.7	2.45	23 2	3.0	5 19 1.5
	5	17 21 59	159	— 27 59.7	— 3.5	57.8	2 34.0	2.47	—	—	6 2 2.1
	6	18 24 53	155	— 28 29.4	+ 1.0	56.9	3 32.7	2.41	0 8	2.4	6 59 2.6
	7	19 25 13	146	— 27 15.4	+ 5.0	56.1	4 29.0	2.27	0 56	1.7	8 7 2.9
	8	20 21 39	136	— 24 34.1	+ 8.3	55.4	5 21.3	2.09	1 30	1.2	9 20 3.1
	9	21 13 47	125	— 20 45.3	+ 10.7	54.8	6 9.4	1.92	1 54	0.9	10 34 3.0
	10	22 2 7	117	— 16 6.8	+ 12.4	54.4	6 53.7	1.78	2 12	0.7	11 46 3.0
	11	22 47 32	111	— 10 53.9	+ 13.6	54.2	7 35.0	1.68	2 26	0.5	12 56 2.9
	12	23 31 9	108	— 5 18.3	+ 14.3	54.2	8 14.6	1.63	2 38	0.5	14 4 2.8
	13	0 14 6	108	+ 0 29.4	+ 14.6	54.3	8 53.5	1.63	2 49	0.5	15 12 2.9
	14	0 57 33	110	+ 6 19.3	+ 14.5	54.6	9 32.9	1.67	3 0	0.5	16 22 2.9
	15	1 42 39	116	+ 12 0.2	+ 13.8	54.9	10 13.9	1.76	3 12	0.5	17 33 3.0
	16	2 30 30	124	+ 17 18.2	+ 12.6	55.4	10 57.7	1.90	3 26	0.7	18 48 3.2
	17	3 22 5	134	+ 21 56.5	+ 10.5	55.9	11 45.2	2.07	3 44	0.9	20 5 3.2
	18	4 17 56	145	+ 25 34.5	+ 7.5	56.4	12 37.0	2.24	4 8	1.2	21 22 3.1
	19	5 17 49	154	+ 27 50.7	+ 3.7	56.9	13 32.8	2.39	4 42	1.7	22 32 2.7
	20	6 20 28	158	+ 28 26.7	— 0.8	57.5	14 31.3	2.47	5 30	2.3	23 31 2.1
	21	7 23 46	157	+ 27 13.3	— 5.3	57.9	15 30.5	2.45	6 34	2.7	— —
	22	8 25 33	151	+ 24 13.9	— 9.5	58.4	16 28.2	2.35	7 52	3.2	0 15 1.6
	23	9 24 30	143	+ 19 42.7	— 12.9	58.8	17 23.1	2.22	9 16	3.5	0 46 1.1
	24	10 20 22	136	+ 14 0.0	— 15.5	59.1	18 14.9	2.10	10 41	3.5	1 10 0.9
	25	11 13 51	132	+ 7 28.4	— 17.0	59.4	19 4.3	2.03	12 6	3.5	1 28 0.7
	26	12 6 7	130	+ 0 30.2	— 17.7	59.6	19 52.5	2.00	13 30	3.5	1 43 0.6
	27	12 58 34	132	— 6 31.7	— 17.3	59.7	20 40.8	2.04	14 54	3.5	1 57 0.6
	28	13 52 34	138	— 13 13.3	— 16.0	59.5	21 30.7	2.13	16 19	3.6	2 12 0.6
	29	14 49 14	146	— 19 9.1	— 13.5	59.3	22 23.3	2.26	17 46	3.6	2 28 0.7
	30	15 49 6	153	— 23 53.2	— 10.0	58.8	23 19.1	2.39	19 14	3.6	2 48 1.0
	31	—	—	—	—	—	—	—	20 37	3.2	3 15 1.4
Juni	1	16 51 40	159	— 27 2.5	— 5.7	58.2	0 17.6	2.47	21 50	2.7	3 53 1.9
	2	17 55 20	159	— 28 22.9	— 1.0	57.5	1 17.1	2.47	22 46	2.0	4 44 2.4
	3	18 57 46	153	— 27 53.5	+ 3.4	56.7	2 15.4	2.37	23 27	1.4	5 48 2.9
	4	19 56 54	143	— 25 46.0	+ 7.1	56.0	3 10.5	2.20	23 55	1.0	7 1 3.1
	5	20 51 43	131	— 22 20.1	+ 9.9	55.4	4 1.2	2.02	—	—	8 16 3.1
	6	21 42 13	121	— 17 56.4	+ 11.9	54.8	4 47.7	1.86	0 16	0.8	9 30 3.0
	7	22 29 8	114	— 12 52.9	+ 13.3	54.5	5 30.5	1.73	0 32	0.6	10 41 2.9
	8	23 13 34	109	— 7 23.7	+ 14.1	54.3	6 10.9	1.65	0 44	0.5	11 50 2.9
	9	23 56 40	107	— 1 40.1	+ 14.5	54.3	6 49.9	1.62	0 56	0.5	12 58 2.8
	10	0 39 41	108	+ 4 8.2	+ 14.5	54.4	7 28.9	1.64	1 7	0.5	14 6 2.9
	11	1 23 50	113	+ 9 51.4	+ 14.0	54.8	8 9.0	1.72	1 18	0.5	15 16 3.0
	12	2 10 22	120	+ 15 17.9	+ 13.1	55.2	8 51.5	1.84	1 32	0.6	16 29 3.1
	13	3 0 24	130	+ 20 12.7	+ 11.4	55.8	9 37.4	2.00	1 48	0.8	17 46 3.2

Tag	O ^b Welt-Zeit					
	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1931						
Juni 13	2 ^h 40 ^m 29 ^s 50 ^m 52 ^s	+18° 23.1 4 18.5	55 35.4 36.0	15 10.3 9.8	43.413	+2.637
14	3 31 21 55 3	+22 41.6 3 18.4	56 11.4 38.0	15 20.1 10.4	56.057	+3.517
15	4 26 24 58 53	+26 0.0 1 58.0	56 49.4 37.2	15 30.5 10.1	69.025	+4.238
16	5 25 17 61 27	+27 58.0 0 20.9	57 26.6 34.2	15 40.6 9.3	82.316	+4.747
17	6 26 44 61 55	+28 18.9 1 24.0	58 0.8 28.9	15 49.9 7.9	95.903	+5.002
18	7 28 39 60 21	+26 54.9 3 4.9	58 29.7 22.6	15 57.8 6.1	109.735	+4.971
19	8 29 0 57 29	+23 50.0 4 31.0	58 52.3 15.8	16 3.9 4.3	123.746	+4.644
20	9 26 29 54 20	+19 19.0 5 36.5	59 8.1 9.0	16 8.2 2.5	137.870	+4.031
21	10 20 49 51 46	+13 42.5 6 19.5	59 17.1 3.1	16 10.7 0.8	152.043	+3.169
22	11 12 35 50 13	+ 7 23.0 6 41.0	59 20.2 2.4	16 11.5 0.6	166.218	+2.110
23	12 2 48 49 57	+ 0 42.0 6 41.8	59 17.8 7.4	16 10.9 2.0	180.365	+0.922
24	12 52 45 50 55	— 5 59.8 6 22.8	59 10.4 12.0	16 8.9 3.3	194.463	—0.318
25	13 43 40 52 58	—12 22.6 5 43.4	58 58.4 16.7	16 5.6 4.5	208.499	—1.532
26	14 36 38 55 41	—18 6.0 4 43.6	58 41.7 21.5	16 1.1 5.9	222.454	—2.646
27	15 32 19 58 22	—22 49.6 3 24.5	58 20.2 26.1	15 55.2 7.1	236.305	—3.593
28	16 30 41 60 9	—26 14.1 1 50.7	57 54.1 30.1	15 48.1 8.2	250.016	—4.320
29	17 30 50 60 11	—28 4.8 0 10.9	57 24.0 33.0	15 39.9 9.0	263.547	—4.793
30	18 31 1 58 21	—28 15.7 1 24.7	56 51.0 34.4	15 30.9 9.4	276.853	—4.996
Juli 1	19 29 22 55 3	—26 51.0 2 47.1	56 16.6 33.8	15 21.5 9.2	289.901	—4.931
2	20 24 25 51 13	—24 3.9 3 51.9	55 42.8 30.8	15 12.3 8.4	302.670	—4.618
3	21 15 38 47 34	—20 12.0 4 39.0	55 12.0 25.9	15 3.9 7.0	315.161	—4.088
4	22 3 12 44 39	—15 33.0 5 10.4	54 46.1 19.0	14 56.9 5.2	327.398	—3.376
5	22 47 51 42 41	—10 22.6 5 29.1	54 27.1 10.6	14 51.7 2.9	339.425	—2.524
6	23 30 32 41 46	— 4 53.5 5 37.5	54 16.5 1.0	14 48.8 0.3	351.305	—1.569
7	0 12 18 41 57	+ 0 44.0 5 36.6	54 15.5 9.1	14 48.5 2.5	3 115	—0.551
8	0 54 15 43 14	+ 6 20.6 5 26.5	54 24.6 19.3	14 51.0 5.3	14.940	+0.493
9	1 37 29 45 37	+11 47.1 5 5.4	54 43.9 28.9	14 56.3 7.8	26.873	+1.524
10	2 23 6 49 2	+16 52.5 4 30.9	55 12.8 37.0	15 4.1 10.1	39.004	+2.504
11	3 12 8 53 12	+21 23.4 3 39.1	55 49.8 43.2	15 14.2 11.8	51.413	+3.387
12	4 5 20 57 31	+25 2.5 2 27.1	56 33.0 46.4	15 26.0 12.6	64.168	+4.126
13	5 2 51 61 1	+27 29.6 0 55.6	57 19.4 46.1	15 38.6 12.6	77.312	+4.671
14	6 3 52 62 44	+28 25.2 0 49.6	58 5.5 42.0	15 51.2 11.4	90.855	+4.973
15	7 6 36 62 11	+27 35.6 2 37.1	58 47.5 34.3	16 2.6 9.4	104.769	+4.993
16	8 8 47 59 49	+24 58.5 4 13.8	59 21.8 23.9	16 12.0 6.5	118.990	+4.708
17	9 8 36 56 37	+20 44.7 5 29.9	59 45.7 12.0	16 18.5 3.3	133.423	+4.120
18	10 5 13 53 38	+15 14.8 6 21.0	59 57.7 0.2	16 21.8 0.0	147.960	+3.262
19	10 58 51 51 30	+ 8 53.8 6 47.0	59 57.9 10.2	16 21.8 2.8	162.497	+2.189
20	11 50 21 50 34	+ 2 6.8 6 49.5	59 47.7 18.4	16 19.0 5.0	176.946	+0.980
21	12 40 55 50 53	— 4 42.7 6 30.7	59 29.3 24.1	16 14.0 6.6	191.249	—0.281
22	13 31 48 52 18	—11 13.4 5 52.2	59 5.2 27.7	16 7.4 7.5	205.371	—1.510
23	14 24 6 54 32	—17 5.6 4 54.8	58 37.5 29.6	15 59.9 8.1	219.299	—2.633
24	15 18 38	—22 0.4	58 7.9	15 51.8	233.031	—3.586

Tag	Obere Kulmination in Greenwich							ob Länge, + 50° Breite			
	AR.	Ände- rung für 1 ^h westl. Länge	Dekl.	Ände- rung für 1 ^h westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 ^h westl. Länge	Auf- gang	Ände- rung für 1 ^h westl. Länge	Unter- gang	Ände- rung für 1 ^h westl. Länge
1931											
Juni 13	3 ^h 0 ^m 24 ^s	130 ^s	+20° 12.7	+11.4	55.8	9 ^h 37.4 ^m	2.00 ^m	1 ^h 48 ^m	0.8 ^m	17 ^h 46 ^m	3.2 ^m
14	3 54 50	142	+24 16.7	+ 8.8	56.5	10 27.8	2.20	2 10	1.1	19 3	3.2
15	4 53 54	153	+27 7.1	+ 5.2	57.1	11 22.8	2.38	2 40	1.5	20 18	2.9
16	5 56 44	160	+28 21.7	+ 0.9	57.7	12 21.5	2.50	3 23	2.1	21 22	2.4
17	7 1 18	161	+27 45.1	— 3.9	58.3	13 22.0	2.51	4 23	2.8	22 12	1.8
18	8 5 4	157	+25 15.7	— 8.4	58.7	14 21.6	2.44	5 38	3.3	22 48	1.3
19	9 6 2	148	+21 5.9	—12.2	59.1	15 18.5	2.30	7 2	3.6	23 14	1.0
20	10 3 29	139	+15 37.7	—15.0	59.2	16 11.8	2.15	8 29	3.6	23 34	0.7
21	10 57 46	133	+ 9 16.3	—16.7	59.3	17 2.0	2.04	9 54	3.5	23 50	0.6
22	11 49 59	129	+ 2 25.9	—17.4	59.3	17 50.2	1.98	11 18	3.5	—	—
23	12 41 32	129	— 4 30.8	—17.2	59.2	18 37.7	1.99	12 41	3.5	0 4	0.6
24	13 33 51	133	—11 12.2	—16.1	59.0	19 25.9	2.05	14 4	3.5	0 18	0.6
25	14 28 14	139	—17 16.1	—14.1	58.7	20 16.2	2.15	15 28	3.5	0 34	0.7
26	15 25 34	147	—22 19.8	—11.1	58.4	21 9.5	2.29	16 54	3.5	0 52	0.9
27	16 25 58	154	—26 1.1	— 7.2	57.9	22 5.8	2.40	18 17	3.3	1 16	1.2
28	17 28 29	157	—28 2.4	— 2.8	57.4	23 4.2	2.45	19 33	2.9	1 48	1.6
29	—	—	—	—	—	—	—	20 36	2.3	2 32	2.1
30	18 31 8	155	—28 15.6	+ 1.7	56.8	0 2.7	2.41	21 23	1.6	3 31	2.7
Juli 1	19 31 42	147	—26 45.7	+ 5.7	56.3	0 59.2	2.28	21 55	1.2	4 41	3.0
2	20 28 32	137	—23 48.0	+ 9.0	55.7	1 52.0	2.11	22 19	0.9	5 57	3.1
3	21 21 6	126	—19 42.9	+11.3	55.1	2 40.4	1.94	22 36	0.6	7 12	3.1
4	22 9 43	117	—14 50.4	+12.9	54.7	3 25.0	1.79	22 50	0.5	8 25	3.0
5	22 55 16	111	— 9 27.3	+13.9	54.4	4 6.5	1.68	23 2	0.5	9 35	2.9
6	23 38 52	108	— 3 46.8	+14.4	54.3	4 46.0	1.63	23 13	0.5	10 44	2.8
7	0 21 43	107	+ 2 0.3	+14.5	54.3	5 24.8	1.62	23 24	0.5	11 51	2.8
8	1 5 1	110	+ 7 44.5	+14.1	54.5	6 4.1	1.67	23 36	0.6	13 0	2.9
9	1 50 2	116	+13 15.6	+13.4	54.9	6 45.0	1.76	23 51	0.7	14 11	3.0
10	2 37 59	125	+18 21.4	+12.0	55.4	7 28.9	1.91	—	—	15 25	3.1
11	3 30 0	136	+22 45.8	+ 9.9	56.1	8 16.9	2.10	0 10	0.9	16 42	3.2
12	4 26 48	148	+26 8.2	+ 6.8	56.8	9 9.6	2.30	0 36	1.3	17 58	3.0
13	5 28 14	159	+28 5.2	+ 2.8	57.7	10 6.9	2.47	1 13	1.9	19 8	2.6
14	6 32 52	164	+28 15.8	— 2.0	58.4	11 7.5	2.55	2 6	2.6	20 4	2.0
15	7 38 17	162	+26 29.1	— 6.9	59.1	12 8.7	2.53	3 16	3.2	20 46	1.5
16	8 41 54	155	+22 50.4	—11.2	59.6	13 8.3	2.41	4 40	3.6	21 16	1.1
17	9 42 12	146	+17 38.9	—14.5	59.9	14 4.3	2.27	6 9	3.7	21 38	0.8
18	10 38 56	138	+11 21.8	—16.7	60.0	14 57.1	2.13	7 37	3.6	21 56	0.7
19	11 32 53	132	+ 4 27.6	—17.7	59.9	15 47.0	2.04	9 4	3.6	22 11	0.6
20	12 25 20	130	— 2 37.3	—17.6	59.6	16 35.4	2.00	10 28	3.5	22 25	0.6
21	13 17 42	132	— 9 28.9	—16.6	59.2	17 23.6	2.03	11 52	3.5	22 40	0.7
22	14 11 19	137	—15 45.3	—14.7	58.7	18 13.2	2.11	13 16	3.5	22 57	0.8
23	15 7 15	143	—21 5.5	—11.9	58.2	19 5.0	2.22	14 41	3.5	23 19	1.0
24	16 5 56	150	—25 9.6	— 8.3	57.7	19 59.6	2.33	16 4	3.4	23 47	1.4

		O ^b Welt-Zeit					
Tag		Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1931							
Juli	24	15 ^h 18 ^m 38 ^s 56 ^m 58 ^s	—22° 0.4 3 40.1	58 7.9 30.4	15 51.8 8.3	233.031	—3.586
	25	16 15 36 58 53	—25 40.5 2 11.4	57 37.5 30.6	15 43.5 8.3	246.571	—4.322
	26	17 14 29 59 25	—27 51.9 0 35.1	57 6.9 30.3	15 35.2 8.2	259.917	—4.811
	27	18 13 54 58 14	—28 27.0 0 59.9	56 36.6 29.7	15 27.0 8.1	273.066	—5.037
	28	19 12 8 55 34	—27 27.1 2 25.2	56 6.9 28.5	15 18.9 7.8	286.008	—4.999
	29	20 7 42 52 5	—25 1.9 3 35.2	55 38.4 26.5	15 11.1 7.2	298.735	—4.711
	30	20 59 47 48 31	—21 26.7 4 28.0	55 11.9 23.6	15 3.9 6.4	311.245	—4.200
	31	21 48 18 45 28	—16 58.7 5 4.4	54 48.3 19.3	14 57.5 5.3	323.543	—3.499
Aug.	1	22 33 46 43 14	—11 54.3 5 26.8	54 29.0 13.7	14 52.2 3.7	335.647	—2.647
	2	23 17 0 41 56	—6 27.5 5 37.5	54 15.3 6.7	14 48.5 1.9	347.592	—1.687
	3	23 58 56 41 40	—0 50.0 5 38.0	54 8.6 1.5	14 46.6 0.5	359.425	—0.659
	4	0 40 36 42 26	+ 4 48.0 5 29.2	54 10.1 10.7	14 47.1 2.9	11.211	+0.394
	5	1 23 2 44 15	+10 17.2 5 10.4	54 20.8 20.6	14 50.0 5.6	23.023	+1.435
	6	2 7 17 47 5	+15 27.6 4 39.7	54 41.4 30.3	14 55.6 8.2	34.945	+2.425
	7	2 54 22 50 49	+20 7.3 3 54.7	55 11.7 39.6	15 3.8 10.8	47.063	+3.322
	8	3 45 11 55 2	+24 2.0 2 51.9	55 51.3 47.3	15 14.6 12.9	59.465	+4.085
	9	4 40 13 58 58	+26 53.9 1 30.0	56 38.6 52.4	15 27.5 14.3	72.226	+4.670
	10	5 39 11 61 44	+28 23.9 0 8.6	57 31.0 54.1	15 41.8 14.7	85.407	+5.031
	11	6 40 55 62 32	+28 15.3 1 56.4	58 25.1 51.0	15 56.5 13.9	99.037	+5.124
	12	7 43 27 61 18	+26 18.9 3 40.9	59 16.1 43.3	16 10.4 11.8	113.106	+4.916
	13	8 44 45 58 45	+22 38.0 5 10.4	59 59.4 30.8	16 22.2 8.4	127.560	+4.394
	14	9 43 30 55 55	+17 27.6 6 16.2	60 30.2 15.2	16 30.6 4.1	142.301	+3.572
	15	10 39 25 53 36	+11 11.4 6 54.7	60 45.4 1.4	16 34.7 0.3	157.199	+2.499
	16	11 33 1 52 16	+ 4 16.7 7 5.7	60 44.0 16.9	16 34.4 4.6	172.114	+1.250
	17	12 25 17 52 8	— 2 49.0 6 51.2	60 27.1 29.3	16 29.8 8.0	186.918	—0.076
	18	13 17 25 53 5	— 9 40.2 6 13.6	59 57.8 37.6	16 21.8 10.3	201.510	—1.380
	19	14 10 30 54 52	—15 53.8 5 15.5	59 20.2 42.0	16 11.5 11.4	215.823	—2.574
	20	15 5 22 56 57	—21 9.3 4 0.1	58 38.2 42.9	16 0.1 11.7	229.827	—3.588
	21	16 2 19 58 36	—25 9.4 2 31.4	57 55.3 41.4	15 48.4 11.3	243.516	—4.372
	22	17 0 55 59 9	—27 40.8 0 55.6	57 13.9 38.2	15 37.1 10.4	256.904	—4.898
	23	18 0 4 58 8	—28 36.4 0 39.4	56 35.7 34.4	15 26.7 9.3	270.015	—5.156
	24	18 58 12 55 42	—27 57.0 2 6.0	56 1.3 30.2	15 17.4 8.3	282.874	—5.147
	25	19 53 54 52 25	—25 51.0 3 18.8	55 31.1 26.1	15 9.1 7.1	295.507	—4.886
	26	20 46 19 49 0	—22 32.2 4 15.4	55 5.0 22.0	15 2.0 6.0	307.937	—4.398
	27	21 35 19 45 57	—18 16.8 4 56.3	54 43.0 17.8	14 56.0 4.8	320.187	—3.712
	28	22 21 16 43 37	—13 20.5 5 22.9	54 25.2 13.4	14 51.2 3.7	332.278	—2.866
	29	23 4 53 42 8	— 7 57.6 5 37.1	54 11.8 8.3	14 47.5 2.2	344.236	—1.900
	30	23 47 1 41 37	— 2 20.5 5 40.3	54 3.5 2.5	14 45.3 0.7	356.092	—0.858
Sept.	31	0 28 38 42 1	+ 3 19.8 5 33.3	54 1.0 4.2	14 44.6 1.1	7.887	+0.218
	1	1 10 39 43 24	+ 8 53.1 5 16.2	54 5.2 11.8	14 45.7 3.3	19.666	+1.284
	2	1 54 3 45 42	+14 9.3 4 47.9	54 17.0 20.4	14 49.0 5.5	31.489	+2.302
	3	2 39 45	+18 57.2	54 37.4	14 54.5	43.422	+3.229

Tag	Obere Kulmination in Greenwich							ob Länge, + 50° Breite			
	AR.	Ände- rung für 1 ^h westl. Länge	Dekl.	Ände- rung für 1 ^h westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 ^h westl. Länge	Auf- gang	Ände- rung für 1 ^h westl. Länge	Unter- gang	Ände- rung für 1 ^h westl. Länge
1931											
Juli											
24	16 ^h 5 ^m 56 ^s	150 ^a	—25° 9'6"	— 8.3	57.7	19 ^h 59.6 ^m	2.33 ^m	16 ^h 4 ^m	3.4 ^m	23 ^h 47 ^m	1.4 ^m
25	17 6 55	154	—27 40.4	— 4.2	57.2	20 56.5	2.40	17 22	3.0	—	—
26	18 8 44	154	—28 27.8	+ 0.2	56.7	21 54.2	2.39	18 28	2.5	0 27	1.9
27	19 9 23	149	—27 32.1	+ 4.4	56.1	22 50.8	2.30	19 20	1.8	1 20	2.5
28	20 7 7	140	—25 3.9	+ 7.9	55.6	23 44.4	2.15	19 56	1.3	2 26	2.9
29	—	—	—	—	—	—	—	20 22	1.0	3 40	3.1
30	21 0 58	129	—21 20.9	+ 10.6	55.2	0 34.2	1.99	20 42	0.7	4 56	3.1
31	21 50 54	120	—16 42.6	+ 12.5	54.8	1 20.1	1.84	20 56	0.6	6 10	3.0
Aug.											
1	22 37 32	113	—11 27.2	+ 13.7	54.5	2 2.6	1.72	21 9	0.5	7 21	2.9
2	23 21 47	109	— 5 49.7	+ 14.3	54.2	2 42.8	1.64	21 20	0.5	8 30	2.9
3	0 4 46	107	— 0 2.5	+ 14.5	54.1	3 21.8	1.61	21 31	0.5	9 38	2.8
4	0 47 37	108	+ 5 43.9	+ 14.3	54.2	4 0.6	1.63	21 42	0.5	10 46	2.9
5	1 31 28	112	+ 11 19.4	+ 13.6	54.4	4 40.4	1.70	21 55	0.6	11 55	2.9
6	2 17 32	119	+ 16 33.3	+ 12.5	54.8	5 22.4	1.82	22 12	0.8	13 7	3.1
7	3 6 58	129	+ 21 12.2	+ 10.7	55.4	6 7.7	1.98	22 34	1.1	14 22	3.1
8	4 0 42	140	+ 24 59.1	+ 8.1	56.1	6 57.4	2.17	23 5	1.6	15 37	3.1
9	4 59 8	152	+ 27 33.3	+ 4.6	56.9	7 51.7	2.35	23 49	2.2	16 50	2.8
10	6 1 41	160	+ 28 32.9	+ 0.2	57.8	8 50.2	2.50	—	—	17 52	2.3
11	7 6 37	163	+ 27 40.7	— 4.6	58.8	9 51.0	2.54	0 51	2.9	18 40	1.7
12	8 11 27	160	+ 24 51.2	— 9.4	59.6	10 51.7	2.50	2 10	3.5	19 15	1.3
13	9 14 5	153	+ 20 14.8	— 13.5	60.3	11 50.3	2.38	3 38	3.7	19 41	0.9
14	10 13 34	145	+ 14 14.1	— 16.4	60.7	12 45.7	2.24	5 10	3.8	20 0	0.7
15	11 10 6	138	+ 7 18.8	— 18.0	60.8	13 38.1	2.14	6 40	3.7	20 16	0.6
16	12 4 38	135	— 0 0.4	— 18.4	60.6	14 28.5	2.08	8 8	3.6	20 31	0.6
17	12 58 28	135	— 7 14.4	— 17.6	60.2	15 18.3	2.08	9 35	3.6	20 46	0.6
18	13 52 58	138	— 13 57.0	— 15.8	59.6	16 8.7	2.13	11 1	3.6	21 2	0.7
19	14 49 11	143	— 19 44.5	— 13.0	58.8	17 0.8	2.22	12 28	3.6	21 22	1.0
20	15 47 42	149	— 24 16.5	— 9.5	58.1	17 55.3	2.31	13 53	3.5	21 49	1.3
21	16 48 17	153	— 27 16.3	— 5.4	57.4	18 51.8	2.38	15 14	3.1	22 25	1.8
22	17 49 48	154	— 28 33.7	— 1.0	56.7	19 49.2	2.38	16 24	2.6	23 14	2.3
23	18 50 28	149	— 28 7.6	+ 3.2	56.1	20 45.8	2.31	17 19	2.0	—	—
24	19 48 37	141	— 26 6.7	+ 6.8	55.6	21 39.8	2.18	17 59	1.4	0 16	2.8
25	20 43 10	132	— 22 46.4	+ 9.7	55.1	22 30.3	2.03	18 27	1.0	1 27	3.0
26	21 33 54	122	— 18 25.1	+ 11.9	54.7	23 17.0	1.87	18 48	0.8	2 42	3.1
27	—	—	—	—	—	—	—	19 4	0.6	3 56	3.1
28	22 21 16	115	— 13 20.5	+ 13.4	54.4	0 0.3	1.75	19 16	0.5	5 9	3.0
29	23 6 6	110	— 7 48.1	+ 14.2	54.2	0 41.0	1.66	19 28	0.5	6 18	2.9
30	23 49 21	107	— 2 1.5	+ 14.6	54.1	1 20.2	1.62	19 38	0.4	7 27	2.8
31	0 32 4	107	+ 3 47.7	+ 14.5	54.0	1 58.9	1.62	19 49	0.5	8 34	2.8
Sept.											
1	1 15 20	110	+ 9 28.9	+ 13.9	54.1	2 38.1	1.66	20 2	0.6	9 43	2.9
2	2 0 12	115	+ 14 51.0	+ 12.9	54.3	3 18.9	1.75	20 16	0.7	10 54	3.0
3	2 47 45	123	+ 19 41.9	+ 11.3	54.7	4 2.4	1.88	20 36	1.0	12 6	3.1

Tag	0 ^h Welt-Zeit					
	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1931						
Sept. 3	2 ^h 39 ^m 45 ^s 48 ^m 52 ^s	+18° 57.2 4 6.6	54 37.4 29.3	14 54.5 8.0	43.422	+3.229
4	3 28 37 52 36	+23 3.8 3 10.2	55 6.7 38.3	15 2.5 10.4	55.537	+4.027
5	4 21 13 56 20	+26 14.0 1 57.1	55 45.0 46.7	15 12.9 12.7	67.912	+4.657
6	5 17 33 59 24	+28 11.1 0 27.9	56 31.7 53.3	15 25.6 14.6	80.622	+5.079
7	6 16 57 60 59	+28 39.0 1 12.8	57 25.0 57.0	15 40.2 15.5	93.732	+5.254
8	7 17 56 60 49	+27 26.2 2 56.5	58 22.0 56.7	15 55.7 15.4	107.289	+5.148
9	8 18 45 59 14	+24 29.7 4 32.6	59 18.7 51.1	16 11.1 13.9	121.308	+4.737
10	9 17 59 57 0	+19 57.1 5 51.7	60 9.8 39.8	16 25.0 10.9	135.764	+4.018
11	10 14 59 54 58	+14 5.4 6 46.9	60 49.6 23.6	16 35.9 6.4	150.582	+3.014
12	11 9 57 53 42	+7 18.5 7 14.6	61 13.2 4.5	16 42.3 1.3	165.647	+1.786
13	12 3 39 53 29	+0 3.9 7 13.3	61 17.7 14.9	16 43.6 4.1	180.810	+0.423
14	12 57 8 54 21	-7 9.4 6 44.1	61 2.8 31.9	16 39.5 8.7	195.914	-0.966
15	13 51 29 56 4	-13 53.5 5 49.3	60 30.9 44.1	16 30.8 12.0	210.817	-2.272
16	14 47 33 58 6	-19 42.8 4 33.2	59 46.8 51.3	16 18.8 14.0	225.407	-3.401
17	15 45 39 59 43	-24 16.0 3 1.1	58 55.5 53.3	16 4.8 14.5	239.617	-4.290
18	16 45 22 60 12	-27 17.1 1 21.2	58 2.2 51.3	15 50.3 14.0	253.420	-4.903
19	17 45 34 59 5	-28 38.3 0 17.8	57 10.9 46.6	15 36.3 12.7	266.821	-5.227
20	18 44 39 56 31	-28 20.5 1 47.8	56 24.3 40.4	15 23.6 11.0	279.853	-5.272
21	19 41 10 53 5	-26 32.7 3 3.4	55 43.9 33.5	15 12.6 9.1	292.561	-5.054
22	20 34 15 49 30	-23 29.3 4 2.9	55 10.4 26.6	15 3.5 7.3	304.998	-4.602
23	21 23 45 46 19	-19 26.4 4 46.8	54 43.8 20.0	14 56.2 5.4	317.216	-3.947
24	22 10 4 43 52	-14 39.6 5 16.7	54 23.8 14.0	14 50.8 3.8	329.265	-3.125
25	22 53 56 42 18	-9 22.9 5 34.4	54 9.8 8.4	14 47.0 2.3	341.192	-2.174
26	23 36 14 41 37	-3 48.5 5 41.1	54 1.4 3.2	14 44.7 0.9	353.037	-1.135
27	0 17 51 41 51	+1 52.6 5 37.3	53 58.2 2.0	14 43.8 0.6	4.838	-0.050
28	0 59 42 43 1	+7 29.9 5 22.6	54 0.2 7.5	14 44.4 2.0	16.634	+1.036
29	1 42 43 45 3	+12 52.5 4 56.7	54 7.7 13.3	14 46.4 3.6	28.461	+2.081
30	2 27 46 47 49	+17 49.2 4 17.9	54 21.0 19.9	14 50.0 5.4	40.360	+3.041
Okt. 1	3 15 35 51 6	+22 7.1 3 24.9	54 40.9 26.8	14 55.4 7.4	52.377	+3.877
2	4 6 41 54 29	+25 32.0 2 16.8	55 7.7 34.3	15 2.8 9.3	64.563	+4.551
3	5 1 10 57 18	+27 48.8 0 54.3	55 42.0 41.7	15 12.1 11.4	76.972	+5.025
4	5 58 28 58 58	+28 43.1 0 38.8	56 23.7 48.3	15 23.5 13.1	89.663	+5.268
5	6 57 26 59 8	+28 4.3 2 16.3	57 12.0 53.1	15 36.6 14.5	102.693	+5.252
6	7 56 34 58 3	+25 48.0 3 50.2	58 5.1 54.9	15 51.1 14.9	116.109	+4.953
7	8 54 37 56 16	+21 57.8 5 12.7	59 0.0 52.4	16 6.0 14.3	129.944	+4.363
8	9 50 53 54 34	+16 45.1 6 17.9	59 52.4 44.6	16 20.3 12.2	144.202	+3.491
9	10 45 27 53 30	+10 27.2 7 0.8	60 37.0 31.4	16 32.5 8.5	158.848	+2.371
10	11 38 57 53 26	+3 26.4 7 17.6	61 8.4 13.7	16 41.0 3.8	173.806	+1.067
11	12 32 23 54 29	-3 51.2 7 5.8	61 22.1 6.3	16 44.8 1.8	188.955	-0.327
12	13 26 52 56 30	-10 57.0 6 24.8	61 15.8 25.7	16 43.0 7.0	204.146	-1.701
13	14 23 22 58 59	-17 21.8 5 15.9	60 50.1 41.6	16 36.0 11.3	219.219	-2.945
14	15 22 21	-22 37.7	60 8.5	16 24.7	234.027	-3.966

Tag	Obere Kulmination in Greenwich							0 ^h Länge, + 50° Breite			
	AR.	Ände- rung für 1 ^h westl. Länge	Dekl.	Ände- rung für 1 ^h westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 ^h westl. Länge	Auf- gang	Ände- rung für 1 ^h westl. Länge	Unter- gang	Ände- rung für 1 ^h westl. Länge
1931											
Sept. 3	2 ^h 47 ^m 45 ^s	123 ^u	+19° 41.9'	+11.3	54.7	4 ^h 2.4 ^m	1.88	20 ^h 36 ^m	1.0	12 ^h 6 ^m	3.1
4	3 38 53	133	+23 47.1	+ 9.0	55.2	4 49.5	2.05	21 2	1.3	13 21	3.1
5	4 34 13	144	+26 48.9	+ 6.0	55.9	5 40.7	2.22	21 39	1.9	14 33	2.9
6	5 33 38	153	+28 28.3	+ 2.2	56.8	6 36.1	2.38	22 32	2.5	15 39	2.5
7	6 36 6	159	+28 27.2	— 2.3	57.7	7 34.4	2.47	23 41	3.2	16 32	1.9
8	7 39 44	159	+26 34.9	— 7.0	58.7	8 34.0	2.47	—	—	17 12	1.4
9	8 42 33	155	+22 52.0	—11.4	59.7	9 32.7	2.40	1 4	3.6	17 41	1.0
10	9 43 10	148	+17 31.9	—15.1	60.5	10 29.2	2.30	2 34	3.8	18 2	0.8
11	10 41 17	142	+10 57.6	—17.6	61.1	11 23.2	2.20	4 5	3.8	18 20	0.7
12	11 37 28	139	+ 3 38.2	—18.8	61.3	12 15.3	2.15	5 36	3.7	18 35	0.6
13	12 32 49	138	— 3 54.7	—18.7	61.2	13 6.6	2.14	7 5	3.7	18 50	0.6
14	13 28 37	141	—11 9.9	—17.3	60.8	13 58.3	2.18	8 35	3.7	19 6	0.7
15	14 25 58	146	—17 37.7	—14.8	60.1	14 51.5	2.26	10 5	3.7	19 25	0.9
16	15 25 32	152	—22 52.2	—11.3	59.2	15 47.0	2.36	11 34	3.6	19 50	1.2
17	16 27 12	156	—26 32.7	— 7.0	58.3	16 44.6	2.43	13 0	3.4	20 23	1.6
18	17 29 51	157	—28 26.8	— 2.5	57.4	17 43.1	2.44	14 16	2.9	21 8	2.2
19	18 31 44	152	—28 32.6	+ 1.9	56.6	18 40.9	2.36	15 17	2.4	22 7	2.7
20	19 31 3	144	—26 58.6	+ 5.8	55.8	19 36.1	2.23	16 1	1.6	23 17	3.0
21	20 26 39	134	—24 0.5	+ 8.9	55.2	20 27.7	2.06	16 32	1.1	—	—
22	21 18 15	124	—19 56.7	+11.3	54.8	21 15.2	1.90	16 55	0.8	0 31	3.1
23	22 6 17	116	—15 5.0	+12.9	54.4	21 59.2	1.77	17 12	0.6	1 45	3.1
24	22 51 34	111	— 9 41.0	+14.0	54.2	22 40.4	1.68	17 25	0.5	2 58	3.0
25	23 35 4	107	— 3 57.9	+14.5	54.0	23 19.8	1.62	17 37	0.5	4 8	2.9
26	0 17 48	107	+ 1 52.3	+14.6	54.0	23 58.5	1.61	17 47	0.4	5 16	2.8
27	—	—	—	—	—	—	—	17 58	0.5	6 24	2.9
28	1 0 48	109	+ 7 38.5	+14.2	54.0	0 37.5	1.65	18 10	0.5	7 33	2.9
29	1 45 6	113	+13 9.3	+13.3	54.1	1 17.7	1.72	18 24	0.6	8 43	3.0
30	2 31 38	120	+18 12.4	+11.9	54.4	2 0.2	1.83	18 41	0.8	9 55	3.0
Okt. 1	3 21 17	129	+22 33.7	+ 9.8	54.7	2 45.8	1.97	19 4	1.1	11 8	3.0
2	4 14 37	138	+25 57.1	+ 7.0	55.2	3 35.0	2.13	19 36	1.6	12 21	2.9
3	5 11 39	147	+28 5.5	+ 3.6	55.8	4 28.0	2.27	20 22	2.2	13 28	2.6
4	6 11 38	153	+28 42.8	— 0.5	56.6	5 23.9	2.37	21 23	2.8	14 25	2.1
5	7 13 8	154	+27 37.7	— 4.9	57.4	6 21.3	2.40	22 38	3.3	15 9	1.6
6	8 14 24	152	+24 47.5	— 9.2	58.4	7 18.4	2.35	—	—	15 41	1.1
7	9 14 8	147	+20 19.1	—13.0	59.3	8 14.1	2.28	0 2	3.6	16 4	0.9
8	10 11 49	142	+14 27.9	—16.1	60.2	9 7.7	2.20	1 31	3.7	16 24	0.7
9	11 7 48	139	+ 7 35.8	—18.1	60.9	9 59.6	2.14	3 0	3.7	16 39	0.6
10	12 3 2	138	+ 0 9.1	—18.9	61.3	10 50.7	2.13	4 29	3.7	16 54	0.6
11	12 58 46	141	— 7 22.2	—18.5	61.4	11 42.4	2.18	5 58	3.8	17 9	0.7
12	13 56 13	147	—14 25.9	—16.6	61.1	12 35.7	2.28	7 30	3.8	17 27	0.8
13	14 56 18	154	—20 29.9	—13.5	60.5	13 31.7	2.39	9 2	3.8	17 49	1.1
14	15 59 9	160	—25 5.5	— 9.3	59.6	14 30.5	2.49	10 34	3.7	18 19	1.5

Tag	Oh Welt-Zeit					
	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1931						
Okt. 14	15 ^h 22 ^m 21 ^s 61 ^m 13 ^s	—22° 37.7' 344.6	60' 8.5" 52.2	16' 24.7" 14.2	234.027	—3.966
15	16 23 34 62 12	—26 22.3 1 59.8	59 16.3 57.3	16 10.5 15.6	248.458	—4.707
16	17 25 46 61 20	—28 22.1 0 12.8	58 19.0 57.0	15 54.9 15.6	262.446	—5.141
17	18 27 6 58 39	—28 34.9 1 25.1	57 22.0 52.9	15 39.3 14.4	275.972	—5.272
18	19 25 45 54 52	—27 9.8 2 47.0	56 29.1 45.9	15 24.9 12.5	289.056	—5.121
19	20 20 37 50 48	—24 22.8 3 50.9	55 43.2 37.2	15 12.4 10.2	301.749	—4.722
20	21 11 25 47 11	—20 31.9 4 37.6	55 6.0 29.1	15 2.2 7.8	314.117	—4.110
21	21 58 36 44 21	—15 54.3 5 9.8	54 36.9 19.9	14 54.4 5.5	326.233	—3.326
22	22 42 57 42 31	—10 44.5 5 29.8	54 17.0 11.9	14 48.9 3.2	338.172	—2.409
23	23 25 28 41 38	—5 14.7 5 39.4	54 5.1 4.6	14 45.7 1.2	350.004	—1.396
24	0 7 6 41 44	+ 0 24.7 5 38.7	54 0.5 1.8	14 44.5 0.4	1.791	—0.328
25	0 48 50 42 46	+ 6 3.4 5 27.8	54 2.3 7.2	14 44.9 2.0	13.587	+0.752
26	1 31 36 44 42	+11 31.2 5 5.2	54 9.5 12.1	14 46.9 3.3	25.436	+1.803
27	2 16 18 47 23	+16 36.4 4 29.6	54 21.6 16.6	14 50.2 4.5	37.376	+2.781
28	3 3 41 50 34	+21 6.0 3 39.3	54 38.2 20.8	14 54.7 5.7	49.434	+3.643
29	3 54 15 53 48	+24 45.3 2 33.8	54 59.0 25.3	15 0.4 6.9	61.639	+4.349
30	4 48 3 56 28	+27 19.1 1 14.1	55 24.3 30.0	15 7.3 8.1	74.015	+4.861
31	5 44 31 58 0	+28 33.2 0 15.6	55 54.3 34.7	15 15.4 9.5	86.588	+5.149
Nov. 1	6 42 31 58 3	+28 17.6 1 49.1	56 29.0 39.3	15 24.9 10.7	99.386	+5.188
2	7 40 34 56 51	+26 28.5 3 18.9	57 8.3 43.1	15 35.6 11.8	112.442	+4.962
3	8 37 25 54 59	+23 9.6 4 38.8	57 51.4 45.3	15 47.4 12.3	125.788	+4.467
4	9 32 24 53 9	+18 30.8 5 44.3	58 35.7 44.7	15 59.7 12.2	139.454	+3.710
5	10 25 33 51 57	+12 46.5 6 32.3	59 21.4 40.5	16 11.9 11.0	153.456	+2.716
6	11 17 30 51 46	+ 6 14.2 6 59.9	60 1.9 31.6	16 22.9 8.6	167.792	+1.531
7	12 9 16 52 46	— 0 45.7 7 3.9	60 33.5 18.6	16 31.5 5.1	182.428	+0.223
8	13 2 2 54 57	— 7 49.6 6 41.1	60 52.1 2.1	16 36.6 0.6	197.295	—1.117
9	13 56 59 57 57	—14 30.7 5 49.6	60 54.2 15.5	16 37.2 4.3	212.281	—2.388
10	14 54 56 61 6	—20 20.3 4 29.9	60 38.7 32.0	16 32.9 8.7	227.250	—3.491
11	15 56 2 63 20	—24 50.2 2 48.4	60 6.7 44.9	16 24.2 12.2	242.053	—4.344
12	16 59 22 63 36	—27 38.6 0 56.4	59 21.8 52.9	16 12.0 14.5	256.555	—4.898
13	18 2 58 61 35	—28 35.0 0 51.7	58 28.9 55.8	15 57.5 15.1	270.656	—5.135
14	19 4 33 57 47	—27 43.3 2 24.7	57 33.1 53.8	15 42.4 14.7	284.301	—5.069
15	20 2 20 53 17	—25 18.6 3 37.0	56 39.3 48.3	15 27.7 13.1	297.486	—4.732
16	20 55 37 49 0	—21 41.6 4 29.1	55 51.0 40.1	15 14.6 11.0	310.243	—4.168
17	21 44 37 45 33	—17 12.5 5 4.3	55 10.9 30.7	15 3.6 8.4	322.635	—3.421
18	22 30 10 43 9	—12 8.2 5 26.0	54 40.2 20.7	14 55.2 5.6	334.743	—2.536
19	23 13 19 41 51	— 6 42.2 5 36.9	54 19.5 10.9	14 49.6 2.9	346.654	—1.555
20	23 55 10 41 36	— 1 5.3 5 38.4	54 8.6 1.7	14 46.7 0.5	358.458	—0.517
21	0 36 46 42 26	+ 4 33.1 5 30.3	54 6.9 6.3	14 46.2 1.7	10.236	+0.540
22	1 19 12 44 12	+10 3.4 5 11.6	54 13.2 13.1	14 47.9 3.6	22.061	+1.574
23	2 3 24 46 52	+15 15.0 4 40.5	54 26.3 18.4	14 51.5 5.0	33.993	+2.546
24	2 50 16	+19 55.5	54 44.7	14 56.5	46.080	+3.414

Tag	Obere Kulmination in Greenwich							0 ^h Länge, + 50° Breite			
	AR.	Ände- rung für 1 ^h westl. Länge	Dekl.	Ände- rung für 1 ^h westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 ^h westl. Länge	Auf- gang	Ände- rung für 1 ^h westl. Länge	Unter- gang	Ände- rung für 1 ^h westl. Länge
1931											
Okt. 14	15 ^h 59 ^m 9 ^s	160 ^s	— 25° 5' 5"	— 9.3	59.6	14 ^h 30.5 ^m	2.49 ^m	10 ^h 34 ^m 3.7 ^m	18 ^h 19 ^m 1.5 ^m		
15	17 3 47	162	— 27 52.1	— 4.5	58.7	15 31.0	2.53	11 58 3.2	19 0 2.0		
16	18 8 12	159	— 28 42.0	+ 0.3	57.7	16 31.3	2.48	13 7 2.5	19 56 2.6		
17	19 10 11	150	— 27 41.8	+ 4.6	56.7	17 29.2	2.33	13 59 1.9	21 3 3.0		
18	20 8 8	139	— 25 8.2	+ 8.1	55.9	18 23.0	2.15	14 36 1.3	22 18 3.1		
19	21 1 35	128	— 21 22.3	+ 10.6	55.2	19 12.4	1.97	15 1 0.9	23 34 3.1		
20	21 50 52	119	— 16 43.7	+ 12.5	54.7	19 57.6	1.81	15 19 0.7	—	—	
21	22 36 55	112	— 11 29.1	+ 13.7	54.3	20 39.6	1.70	15 34 0.6	0 47 3.0		
22	23 20 47	108	— 5 52.1	+ 14.3	54.1	21 19.4	1.63	15 46 0.5	1 58 2.9		
23	0 3 35	107	— 0 4.1	+ 14.6	54.0	21 58.2	1.61	15 56 0.4	3 6 2.8		
24	0 46 24	108	+ 5 44.1	+ 14.4	54.0	22 37.0	1.63	16 7 0.5	4 14 2.8		
25	1 30 18	112	+ 11 21.6	+ 13.7	54.2	23 16.8	1.70	16 18 0.5	5 22 2.9		
26	2 16 16	118	+ 16 36.1	+ 12.4	54.4	23 58.7	1.80	16 31 0.6	6 32 3.0		
27	—	—	—	—	—	—	—	16 48 0.8	7 44 3.0		
28	3 5 10	127	+ 21 13.4	+ 10.6	54.6	0 43.5	1.94	17 9 1.0	8 57 3.1		
29	3 57 35	136	+ 24 57.3	+ 8.0	55.0	1 31.9	2.09	17 38 1.5	10 11 3.0		
30	4 53 35	144	+ 27 30.3	+ 4.7	55.5	2 23.8	2.23	18 19 2.0	11 20 2.7		
31	5 52 28	150	+ 28 36.6	+ 0.8	56.0	3 18.6	2.32	19 14 2.6	12 20 2.2		
Nov. 1	6 52 50	151	+ 28 5.1	— 3.4	56.6	4 14.9	2.35	20 24 3.1	13 8 1.7		
2	7 52 59	149	+ 25 52.9	— 7.6	57.3	5 10.9	2.31	21 43 3.4	13 42 1.2		
3	8 51 33	144	+ 22 5.9	— 11.3	58.0	6 5.4	2.23	23 7 3.5	14 8 0.9		
4	9 47 59	138	+ 16 56.9	— 14.4	58.8	6 57.7	2.14	—	14 27 0.7		
5	10 42 31	135	+ 10 43.2	— 16.6	59.6	7 48.2	2.08	0 33 3.6	14 44 0.6		
6	11 36 4	134	+ 3 45.3	— 18.0	60.2	8 37.7	2.06	1 58 3.6	14 58 0.6		
7	12 29 52	136	— 3 33.6	— 18.4	60.7	9 27.4	2.10	3 24 3.6	15 13 0.6		
8	13 25 19	142	— 10 46.4	— 17.5	60.9	10 18.8	2.20	4 53 3.7	15 29 0.7		
9	14 23 39	150	— 17 22.3	— 15.3	60.8	11 13.0	2.33	6 24 3.8	15 48 0.9		
10	15 25 34	159	— 22 48.8	— 11.7	60.4	12 10.8	2.48	7 57 3.8	16 14 1.3		
11	16 30 41	166	— 26 36.4	— 7.1	59.7	13 11.8	2.58	9 27 3.6	16 50 1.8		
12	17 37 13	166	— 28 25.7	— 2.0	58.9	14 14.2	2.59	10 47 3.0	17 40 2.4		
13	18 42 29	159	— 28 13.9	+ 2.9	57.9	15 15.4	2.48	11 49 2.2	18 45 2.9		
14	19 44 4	148	— 26 14.5	+ 6.9	56.9	16 12.9	2.30	12 33 1.5	20 0 3.2		
15	20 40 44	135	— 22 50.3	+ 9.9	56.1	17 5.5	2.09	13 3 1.1	21 17 3.2		
16	21 32 30	124	— 18 25.0	+ 12.0	55.3	17 53.1	1.90	13 24 0.8	22 33 3.1		
17	22 20 12	115	— 13 18.8	+ 13.4	54.8	18 36.8	1.75	13 40 0.6	23 45 3.0		
18	23 5 0	109	— 7 47.3	+ 14.2	54.4	19 17.5	1.66	13 53 0.5	—	—	
19	23 48 8	107	— 2 2.6	+ 14.5	54.2	19 56.6	1.61	14 4 0.5	0 55 2.9		
20	0 30 50	107	+ 3 45.2	+ 14.4	54.1	20 35.3	1.62	14 15 0.5	2 3 2.8		
21	1 14 15	110	+ 9 26.2	+ 13.9	54.2	21 14.6	1.67	14 26 0.5	3 10 2.8		
22	1 59 30	116	+ 14 49.2	+ 12.9	54.4	21 55.8	1.77	14 39 0.6	4 19 2.9		
23	2 47 34	124	+ 19 40.9	+ 11.3	54.7	22 39.8	1.90	14 54 0.7	5 30 3.0		
24	3 39 14	134	+ 23 45.2	+ 8.9	55.1	23 27.4	2.07	15 14 1.0	6 44 3.1		

Tag	Oh Welt-Zeit					
	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1931						
Nov. 24	2 ^h 50 ^m 16 ^s 50 ^m 8 ^s	+19° 55.5 3 54.4	54 44.7 22.3	14 56.5 6.1	46.080	+3.414
25	3 40 24 53 37	+23 49.9 2 52.1	55 7.0 25.2	15 2.6 6.8	58.351	+4.135
26	4 34 1 56 34	+26 42.0 1 34.2	55 32.2 27.1	15 9.4 7.4	70.824	+4.670
27	5 30 35 58 19	+28 16.2 0 4.4	55 59.3 28.4	15 16.8 7.7	83.501	+4.985
28	6 28 54 58 27	+28 20.6 1 29.9	56 27.7 29.4	15 24.5 8.1	96.382	+5.052
29	7 27 21 57 5	+26 50.7 3 0.1	56 57.1 30.2	15 32.6 8.2	109.458	+4.859
30	8 24 26 54 50	+23 50.6 4 19.4	57 27.3 30.9	15 40.8 8.4	122.725	+4.403
Dez. 1	9 19 16 52 31	+19 31.2 5 23.6	57 58.2 30.9	15 49.2 8.4	136.184	+3.698
2	10 11 47 50 46	+14 7.6 6 10.4	58 29.1 29.8	15 57.6 8.1	149.842	+2.773
3	11 2 33 50 3	+7 57.2 6 39.4	58 58.9 27.1	16 5.7 7.4	163.708	+1.672
4	11 52 36 50 32	+1 17.8 6 49.0	59 26.0 21.8	16 13.1 6.0	177.787	+0.453
5	12 43 8 52 18	— 5 31.2 6 36.9	59 47.8 13.7	16 19.1 3.7	192.072	—0.810
6	13 35 26 55 11	—12 8.1 6 0.6	60 1.5 3.0	16 22.8 0.8	206.533	—2.034
7	14 30 37 58 45	—18 8.7 4 57.6	60 4.5 9.5	16 23.6 2.6	221.109	—3.133
8	15 29 22 62 1	—23 6.3 3 29.4	59 55.0 22.5	16 21.0 6.1	235.711	—4.027
9	16 31 23 63 53	—26 35.7 1 42.8	59 32.5 34.0	16 14.9 9.3	250.227	—4.652
10	17 35 16 63 22	—28 18.5 0 9.3	58 58.5 42.7	16 5.6 11.6	264.537	—4.975
11	18 38 38 60 30	—28 9.2 1 52.5	58 15.8 47.6	15 54.0 13.0	278.538	—4.989
12	19 39 8 56 12	—26 16.7 3 16.7	57 28.2 48.2	15 41.0 13.1	292.158	—4.715
13	20 35 20 51 34	—23 0.0 4 18.3	56 40.0 45.3	15 27.9 12.3	305.362	—4.193
14	21 26 54 47 31	—18 41.7 4 59.7	55 54.7 39.0	15 15.6 10.7	318.160	—3.471
15	22 14 25 44 27	—13 42.0 5 24.6	55 15.7 30.6	15 4.9 8.3	330.594	—2.602
16	22 58 52 42 30	— 8 17.4 5 36.8	54 45.1 20.8	14 56.6 5.7	342.734	—1.632
17	23 41 22 41 43	— 2 40.6 5 39.0	54 24.3 10.3	14 50.9 2.8	354.663	—0.605
18	0 23 5 42 3	+ 2 58.4 5 32.4	54 14.0 0.2	14 48.1 0.1	6.476	+0.437
19	1 5 8 43 28	+ 8 30.8 5 16.2	54 14.2 9.8	14 48.2 2.6	18.265	+1.458
20	1 48 36 45 52	+13 47.0 4 49.2	54 24.0 18.5	14 50.8 5.1	30.121	+2.420
21	2 34 28 49 6	+18 36.2 4 8.7	54 42.5 25.3	14 55.9 6.9	42.120	+3.284
22	3 23 34 52 48	+22 44.9 3 12.1	55 7.8 30.4	15 2.8 8.3	54.328	+4.012
23	4 16 22 56 19	+25 57.0 1 58.3	55 38.2 33.1	15 11.1 9.0	66.788	+4.564
24	5 12 41 58 48	+27 55.3 0 29.8	56 11.3 33.6	15 20.1 9.1	79.524	+4.901
25	6 11 29 59 37	+28 25.1 1 7.1	56 44.9 32.3	15 29.2 8.8	92.535	+4.993
26	7 11 6 58 38	+27 18.0 2 42.6	57 17.2 29.2	15 38.0 8.0	105.799	+4.820
27	8 9 44 56 20	+24 35.4 4 7.6	57 46.4 25.4	15 46.0 6.9	119.280	+4.377
28	9 6 4 53 37	+20 27.8 5 15.6	58 11.8 21.0	15 52.9 5.7	132.935	+3.678
29	9 59 41 51 17	+15 12.2 6 4.2	58 32.8 16.7	15 58.6 4.6	146.722	+2.757
30	10 50 58 49 51	+ 9 8.0 6 33.0	58 49.5 12.7	16 3.2 3.4	160.609	+1.665
31	11 40 49 49 35	+ 2 35.0 6 42.3	59 2.2 8.8	16 6.6 2.4	174.574	+0.465
32	12 30 24	— 4 7.3	59 11.0	16 9.0	188.608	—0.770

Tag	Obere Kulmination in Greenwich							o ^h Länge, + 50° Breite			
	AR.	Ände- rung für 1 ^h westl. Länge	Dekl.	Ände- rung für 1 ^h westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 ^h westl. Länge	Auf- gang	Ände- rung für 1 ^h westl. Länge	Unter- gang	Ände- rung für 1 ^h westl. Länge
1931											
Nov. 24	3 ^h 39 ^m 14 ^s	134 ^s	+23° 45.2	+ 8.9	55.1	23 ^h 27.4	2.07 ^m	15 ^h 14 ^m	1.0 ^m	6 ^h 44 ^m	3.1 ^m
25	—	—	—	—	—	—	—	15 40	1.3	7 58	3.0
26	4 34 44	143	+26 43.8	+ 5.8	55.5	0 18.8	2.21	16 18	1.9	9 10	2.8
27	5 33 32	150	+28 18.6	+ 2.0	56.0	1 13.5	2.33	17 10	2.5	10 14	2.4
28	6 34 13	152	+28 16.3	— 2.2	56.5	2 10.1	2.37	18 16	3.0	11 6	1.9
29	7 34 52	150	+26 32.3	— 6.4	57.0	3 6.7	2.33	19 32	3.3	11 44	1.4
30	8 33 48	144	+23 12.2	—10.2	57.5	4 1.5	2.23	20 55	3.5	12 12	1.0
Dez. 1	9 30 9	138	+18 29.8	—13.2	58.1	4 53.8	2.13	22 18	3.5	12 33	0.8
2	10 24 1	132	+12 42.9	—15.5	58.6	5 43.6	2.03	23 41	3.4	12 50	0.6
3	11 16 12	129	+ 6 10.6	—17.0	59.1	6 31.7	1.99	—	—	13 4	0.6
4	12 7 54	130	— 0 46.9	—17.6	59.6	7 19.3	2.00	1 3	3.5	13 18	0.6
5	13 0 36	134	— 7 48.2	—17.3	59.9	8 7.9	2.07	2 28	3.6	13 33	0.7
6	13 55 42	142	—14 28.7	—15.9	60.1	8 59.0	2.20	3 54	3.7	13 50	0.8
7	14 54 24	152	—20 20.5	—13.2	60.0	9 53.6	2.36	5 24	3.7	14 12	1.1
8	15 57 6	161	—24 53.4	— 9.3	59.8	10 52.2	2.52	6 54	3.6	14 42	1.5
9	17 2 57	167	—27 40.7	— 4.5	59.3	11 53.9	2.60	8 19	3.2	15 25	2.1
10	18 9 39	165	—28 27.2	+ 0.6	58.6	12 56.5	2.58	9 30	2.6	16 23	2.7
11	19 14 16	157	—27 15.3	+ 5.2	57.8	13 57.0	2.44	10 24	1.9	17 35	3.1
12	20 14 32	144	—24 23.2	+ 8.9	57.0	14 53.2	2.23	11 0	1.3	18 54	3.3
13	21 9 39	132	—20 16.2	+11.5	56.2	15 44.2	2.03	11 26	0.9	20 13	3.2
14	21 59 58	121	—15 18.9	+13.1	55.5	16 30.4	1.84	11 44	0.7	21 28	3.1
15	22 46 33	113	— 9 50.9	+14.1	54.9	17 13.0	1.71	11 59	0.5	22 40	2.9
16	23 30 39	108	— 4 7.0	+14.5	54.5	17 53.0	1.64	12 10	0.5	23 49	2.9
17	0 13 36	107	+ 1 41.5	+14.5	54.3	18 31.9	1.62	12 21	0.5	—	—
18	0 56 37	109	+ 7 25.0	+14.1	54.2	19 10.9	1.65	12 33	0.5	0 57	2.8
19	1 40 56	113	+12 54.0	+13.3	54.4	19 51.2	1.72	12 44	0.5	2 5	2.9
20	2 27 43	121	+17 57.0	+11.9	54.7	20 33.9	1.85	12 59	0.7	3 15	3.0
21	3 17 56	130	+22 19.8	+ 9.9	55.1	21 20.0	2.00	13 16	0.9	4 27	3.1
22	4 12 13	141	+25 44.7	+ 7.1	55.6	22 10.2	2.18	13 40	1.2	5 42	3.1
23	5 10 27	150	+27 52.3	+ 3.4	56.2	23 4.4	2.33	14 14	1.7	6 55	2.9
24	—	—	—	—	—	—	—	15 1	2.3	8 3	2.6
25	6 11 33	155	+28 25.1	— 0.8	56.7	0 1.4	2.40	16 4	2.9	9 0	2.1
26	7 13 33	154	+27 13.2	— 5.2	57.3	0 59.3	2.40	17 19	3.3	9 43	1.6
27	8 14 22	149	+24 18.4	— 9.3	57.8	1 56.0	2.31	18 42	3.5	10 15	1.1
28	9 12 32	142	+19 53.7	—12.6	58.2	2 50.1	2.19	20 6	3.5	10 38	0.9
29	10 7 42	134	+14 18.9	—15.1	58.6	3 41.1	2.07	21 30	3.5	10 56	0.7
30	11 0 23	129	+ 7 56.0	—16.7	58.9	4 29.8	1.99	22 52	3.4	11 11	0.6
31	11 51 43	128	+ 1 6.6	—17.3	59.1	5 17.0	1.96	—	—	11 25	0.6
32	12 43 4	130	— 5 48.3	—17.1	59.2	6 4.3	1.99	0 14	3.4	11 39	0.6

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Jan. 0	19 31 ^h 52.14 ^m 3 6.42	—20 48 49.8 ^s 13 1.6	9.869 8739	12 53.4 ^m
1	19 28 45.72 3 52.40	20 35 48.2 11 32.7	9.859 1520	12 46.0
2	19 24 53.32 4 33.11	20 24 15.5 10 0.2	9.849 5800	12 37.8
3	19 20 20.21 5 6.49	20 14 15.3 8 26.5	9.841 4151	12 29.1
4	19 15 13.72 5 30.71	20 5 48.8 6 53.4	9.834 8836	12 19.9
5	19 9 43.01 5 44.44	19 58 55.4 5 21.8	9.830 1632	12 10.3
6	19 3 58.57 5 47.11	—19 53 33.6 3 52.1	9.827 3649	12 0.7
7	18 58 11.46 5 38.92	19 49 41.5 2 24.4	9.826 5234	11 51.1
8	18 52 32.54 5 20.80	19 47 17.1 0 58.8	9.827 5956	11 41.7
9	18 47 11.74 4 54.27	19 46 18.3 0 24.5	9.830 4671	11 32.6
10	18 42 17.47 4 42.16	19 46 42.8 1 44.7	9.834 9673	11 24.1
11	18 37 56.31 3 43.47	19 48 27.5 3 0.6	9.840 8869	11 16.1
12	18 34 12.84 3 3.01	—19 51 28.1 4 11.1	9.847 9976	11 8.8
13	18 31 9.83 2 21.43	19 55 39.2 5 14.8	9.856 0684	11 2.2
14	18 28 48.40 1 40.01	20 0 54.0 6 10.5	9.864 8788	10 56.2
15	18 27 8.39 0 59.73	20 7 4.5 6 57.2	9.874 2276	10 50.9
16	18 26 8.66 0 21.30	20 14 1.7 7 34.5	9.883 9380	10 46.3
17	18 25 47.36 0 14.87	20 21 36.2 8 2.2	9.893 8596	10 42.3
18	18 26 2.23 0 48.54	—20 29 38.4 8 20.4	9.903 8675	10 38.8
19	18 26 50.77 1 19.62	20 37 58.8 8 29.1	9.913 8606	10 36.0
20	18 28 10.39 1 48.12	20 46 27.9 8 29.0	9.923 7588	10 33.6
21	18 29 58.51 2 14.16	20 54 56.9 8 20.6	9.933 4999	10 31.6
22	18 32 12.67 2 37.87	21 3 17.5 8 4.7	9.943 0374	10 30.1
23	18 34 50.54 2 59.40	21 11 22.2 7 41.7	9.952 3371	10 28.9
24	18 37 49.94 3 18.94	—21 19 3.9 7 12.5	9.961 3750	10 28.1
25	18 41 8.88 3 36.65	21 26 16.4 6 37.3	9.970 1354	10 27.6
26	18 44 45.53 3 52.70	21 32 53.7 5 57.0	9.978 6083	10 27.4
27	18 48 38.23 4 7.23	21 38 50.7 5 12.2	9.986 7890	10 27.5
28	18 52 45.46 4 20.42	21 44 2.9 4 23.3	9.994 6776	10 27.7
29	18 57 5.88 4 32.39	21 48 26.2 3 30.7	0.002 2760	10 28.2
30	19 1 38.27 4 43.25	—21 51 56.9 2 34.9	0.009 5885	10 28.9
31	19 6 21.52 4 53.13	21 54 31.8 1 36.0	0.016 6211	10 29.8
Febr. 1	19 11 14.65 5 2.11	21 56 7.8 0 34.7	0.023 3806	10 30.8
2	19 16 16.76 5 10.29	21 56 42.5 0 28.9	0.029 8750	10 31.9
3	19 21 27.05 5 17.75	21 56 13.6 1 34.5	0.036 1121	10 33.2
4	19 26 44.80 5 24.56	21 54 39.1 2 42.1	0.042 1002	10 34.6
5	19 32 9.36 5 30.76	—21 51 57.0 3 51.0	0.047 8477	10 36.1
6	19 37 40.12 5 36.44	21 48 6.0 5 1.5	0.053 3630	10 37.7
7	19 43 16.56 5 41.64	21 43 4.5 6 13.4	0.058 6536	10 39.5
8	19 48 58.20 5 46.39	21 36 51.1 7 26.3	0.063 7275	10 41.2
9	19 54 44.59 5 50.74	21 29 24.8 8 40.1	0.068 5923	10 43.1
10	20 0 35.33	—21 20 44.7	0.073 2548	10 45.0

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Febr. 10	20 ^h 0 ^m 35.33 ^s 5 54.72	—21° 20' 44.7" 9 54.7	0.073 2548	10 ^h 45.0 ^m
11	20 6 30.05 5 58.39	21 10 50.0 11 10.3	0.077 7220 4 4672	10 47.0
12	20 12 28.44 6 1.76	20 59 39.7 12 26.5	0.082 0000 4 2780	10 49.1
13	20 18 30.20 6 4.84	20 47 13.2 13 43.1	0.086 0949 4 0949	10 51.2
14	20 24 35.04 6 7.70	20 33 30.1 15 0.4	0.090 0124 3 7449	10 53.4
15	20 30 42.74 6 10.34	20 18 29.7 16 18.2	0.093 7573 3 5771	10 55.6
16	20 36 53.08 6 12.79	—20 2 11.5 17 36.1	0.097 3344 3 4137	10 57.8
17	20 43 5.87 6 15.04	19 44 35.4 18 54.6	0.100 7481 3 2539	11 0.1
18	20 49 20.91 6 17.16	19 25 40.8 20 13.3	0.104 0020 3 0973	11 2.5
19	20 55 38.07 6 19.14	19 5 27.5 21 32.2	0.107 0993 2 9439	11 4.8
20	21 1 57.21 6 21.01	18 43 55.3 22 51.3	0.110 0432 2 7926	11 7.2
21	21 8 18.22 6 22.78	18 21 4.0 24 10.6	0.112 8358 2 6435	11 9.6
22	21 14 41.00 6 24.47	—17 56 53.4 25 30.0	0.115 4793 2 4955	11 12.1
23	21 21 5.47 6 26.09	17 31 23.4 26 49.5	0.117 9748 2 3485	11 14.6
24	21 27 31.56 6 27.65	17 4 33.9 28 9.1	0.120 3233 2 2020	11 17.1
25	21 33 59.21 6 29.19	16 36 24.8 29 28.7	0.122 5253 2 0549	11 19.6
26	21 40 28.40 6 30.70	16 6 56.1 30 48.4	0.124 5802 1 9072	11 22.2
27	21 46 59.10 6 32.20	15 36 7.7 32 8.0	0.126 4874 1 7580	11 24.8
28	21 53 31.30 6 33.71	—15 3 59.7 33 27.4	0.128 2454 1 6068	11 27.4
März 1	22 0 5.01 6 35.23	14 30 32.3 34 46.7	0.129 8522 1 4526	11 30.0
2	22 6 40.24 6 36.77	13 55 45.6 36 6.0	0.131 3048 1 2947	11 32.7
3	22 13 17.01 6 38.34	13 19 39.6 37 25.1	0.132 5995 1 1324	11 35.4
4	22 19 55.35 6 39.97	12 42 14.5 38 43.6	0.133 7319 9649	11 38.1
5	22 26 35.32 6 41.63	12 3 30.9 40 2.0	0.134 6968 7911	11 40.8
6	22 33 16.95 6 43.36	—11 23 28.9 41 19.8	0.135 4879 6100	11 43.6
7	22 40 0.31 6 45.15	10 42 9.1 42 36.8	0.136 0979 4205	11 46.4
8	22 46 45.46 6 46.99	9 59 32.3 43 53.2	0.136 5184 2214	11 49.2
9	22 53 32.45 6 48.88	9 15 39.1 45 8.5	0.136 7398 117	11 52.1
10	23 0 21.33 6 50.83	8 30 30.6 46 22.5	0.136 7515 2100	11 55.0
11	23 7 12.16 6 52.82	7 44 8.1 47 35.0	0.136 5415 4450	11 57.9
12	23 14 4.98 6 54.84	—6 56 33.1 48 45.7	0.136 0965 6945	12 0.9
13	23 20 59.82 6 56.87	6 7 47.4 49 54.1	0.135 4020 9601	12 3.9
14	23 27 56.69 6 58.88	5 17 53.3 50 59.7	0.134 4419 1 2437	12 6.9
15	23 34 55.57 7 0.84	4 26 53.6 52 2.1	0.133 1982 1 5460	12 9.9
16	23 41 56.41 7 2.73	3 34 51.5 53 0.8	0.131 6522 1 8685	12 13.0
17	23 48 59.14 7 4.47	2 41 50.7 53 54.8	0.129 7837 2 2126	12 16.2
18	23 56 3.61 7 6.02	—1 47 55.9 54 43.6	0.127 5711 2 5797	12 19.3
19	0 3 9.63 7 7.30	—0 53 12.3 55 26.2	0.124 9914 2 9700	12 22.5
20	0 10 16.93 7 8.25	+ 0 2 13.9 56 1.6	0.122 0214 3 3849	12 25.7
21	0 17 25.18 7 8.75	0 58 15.5 56 28.9	0.118 6365 3 8239	12 28.9
22	0 24 33.93 7 8.71	1 54 44.4 56 47.1	0.114 8126 4 2858	12 32.1
23	0 31 42.64	+ 2 51 31.5	0.110 5268	12 35.3

		O ^h Welt-Zeit			Obere Kul- mination in Green- wich
Tag	Scheinbare Rektaszension	Scheinbare Deklination	log Δ		
1931					
März 23	0 ^h 31 ^m 42.64 ^s 7 ^s 8.04	+ 2° 51' 31.5" 56' 54.9"	0.110 5268	4 7704	12 ^h 35.3 ^m
24	0 38 50.68 7 6.59	3 48 26.4 56 51.4	0.105 7564	5 2755	12 38.5
25	0 45 57.27 7 4.25	4 45 17.8 56 35.7	0.100 4809	5 7982	12 41.6
26	0 53 1.52 7 0.93	5 41 53.5 56 6.9	0.094 6827	6 3350	12 44.8
27	1 0 2.45 6 56.49	6 38 0.4 55 24.2	0.088 3477	6 8811	12 47.8
28	1 6 58.94 6 50.85	7 33 24.6 54 27.4	0.081 4666	7 4318	12 50.8
29	1 13 49.79 6 43.91	+ 8 27 52.0 53 16.2	0.074 0348	7 9809	12 53.6
30	1 20 33.70 6 35.63	9 21 8.2 51 50.7	0.066 0539	8 5229	12 56.3
31	1 27 9.33 6 25.97	10 12 58.9 50 11.5	0.057 5310	9 0510	12 58.9
April 1	1 33 35.30 6 14.90	11 3 10.4 48 19.1	0.048 4800	9 5595	13 1.3
2	1 39 50.20 6 2.45	11 51 29.5 46 14.6	0.038 9205	10 0424	13 3.5
3	1 45 52.65 5 48.66	12 37 44.1 43 59.1	0.028 8781	10 4943	13 5.5
4	1 51 41.31 5 33.57	+ 13 21 43.2 41 33.5	0.018 3838	10 9109	13 7.2
5	1 57 14.88 5 17.25	14 3 16.7 38 59.4	0.007 4729	11 2882	13 8.7
6	2 2 32.13 4 59.79	14 42 16.1 36 17.8	0.996 1847	11 6226	13 9.9
7	2 7 31.92 4 41.25	15 18 33.9 33 30.0	0.984 5621	11 9114	13 10.8
8	2 12 13.17 4 21.73	15 52 3.9 30 36.8	0.972 6507	12 1527	13 11.3
9	2 16 34.90 4 1.34	16 22 40.7 27 39.3	0.960 4980	12 3438	13 11.6
10	2 20 36.24 3 40.17	+ 16 50 20.0 24 38.3	0.948 1542	12 4833	13 11.4
11	2 24 16.41 3 18.28	17 14 58.3 21 34.2	0.935 6709	12 5694	13 11.0
12	2 27 34.69 2 55.83	17 36 32.5 18 27.7	0.923 1015	12 6004	13 10.1
13	2 30 30.52 2 32.91	17 55 0.2 15 19.3	0.910 5011	12 5743	13 8.9
14	2 33 3.43 2 9.65	18 10 19.5 12 9.3	0.897 9268	12 4891	13 7.3
15	2 35 13.08 1 46.19	18 22 28.8 8 58.3	0.885 4377	12 3425	13 5.3
16	2 36 59.27 1 22.69	+ 18 31 27.1 5 46.6	0.873 0952	12 1325	13 2.9
17	2 38 21.96 0 59.30	18 37 13.7 2 34.9	0.860 9627	11 8574	13 0.2
18	2 39 21.26 0 36.24	18 39 48.6 0 36.0	0.849 1053	11 5146	12 57.0
19	2 39 57.50 0 13.72	18 39 12.6 3 45.2	0.837 5907	11 1027	12 53.5
20	2 40 11.22 0 8.02	18 35 27.4 6 51.5	0.826 4880	10 6203	12 49.6
21	2 40 3.20 0 28.76	18 28 35.9 9 53.4	0.815 8677	10 0679	12 45.3
22	2 39 34.44 0 48.24	+ 18 18 42.5 12 49.4	0.805 7998	9 4454	12 40.7
23	2 38 46.20 1 6.16	18 5 53.1 15 37.2	0.796 3544	8 7550	12 35.9
24	2 37 40.04 1 22.31	17 50 15.9 18 14.8	0.787 5994	8 0000	12 30.7
25	2 36 17.73 1 36.42	17 32 1.1 20 39.9	0.779 5994	7 1856	12 25.3
26	2 34 41.31 1 48.31	17 11 21.2 22 50.1	0.772 4138	6 3185	12 19.6
27	2 32 53.00 1 57.80	16 48 31.1 24 43.1	0.766 0953	5 4067	12 13.8
28	2 30 55.20 2 4.75	+ 16 23 48.0 26 16.8	0.760 6886	4 4597	12 7.9
29	2 28 50.45 2 9.09	15 57 31.2 27 29.3	0.756 2289	3 4885	12 1.8
30	2 26 41.36 2 10.81	15 30 1.9 28 19.3	0.752 7404	2 5049	11 55.7
Mai 1	2 24 30.55 2 9.97	15 1 42.6 28 46.1	0.750 2355	1 5207	11 49.7
2	2 22 20.58 2 6.66	14 32 56.5 28 49.4	0.748 7148	5483	11 43.6
3	2 20 13.92	+ 14 4 7.1	0.748 1665		11 37.6

Tag	O ^b Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Mai 3	2 ^h 20 ^m 13.92 ^s 2 ^m 1.01 ^s	+14° 4' 7.1" 28' 29.4"	9.748 1665 4019	I ^h 37.6 ^m II 31.7
4	2 18 12.91 1 53.25	13 35 37.7 27 47.2	9.748 5684 3193	II 26.0
5	2 16 19.66 1 43.58	13 7 50.5 26 44.5	9.749 8877 2 1942	II 20.4
6	2 14 36.08 1 32.26	12 41 6.0 25 22.9	9.752 0819 3 0203	II 15.1
7	2 13 3.82 1 19.55	12 15 43.1 23 44.7	9.755 1022 3 7917	II 9.9
8	2 11 44.27 1 5.68	11 51 58.4 21 52.3	9.758 8939 4 5051	II 5.0
9	2 10 38.59 0 50.90	+11 30 6.1 19 48.2	9.763 3990 5 1577	II 0.4
10	2 9 47.69 0 35.46	11 10 17.9 17 34.7	9.768 5567 5 7495	IO 56.0
11	2 9 12.23 0 19.56	10 52 43.2 15 14.4	9.774 3062 6 2812	IO 51.8
12	2 8 52.67 0 3.37	10 37 28.8 12 49.3	9.780 5874 6 7543	IO 48.0
13	2 8 49.30 0 12.95	10 24 39.5 10 21.2	9.787 3417 7 1715	IO 44.4
14	2 9 2.25 0 29.28	10 14 18.3 7 52.2	9.794 5132 7 5360	IO 41.0
15	2 9 31.53 0 45.49	+10 6 26.1 5 23.6	9.802 0492 7 8511	IO 38.0
16	2 10 17.02 1 1.50	10 1 2.5 2 56.5	9.809 9003 8 1212	IO 35.2
17	2 11 18.52 1 17.24	9 58 6.0 0 32.3	9.818 0215 8 3497	IO 32.7
18	2 12 35.76 1 32.69	9 57 33.7 1 48.7	9.826 3712 8 5407	IO 30.4
19	2 14 8.45 1 47.80	9 59 22.4 4 5.2	9.834 9119 8 6976	IO 28.3
20	2 15 56.25 2 2.56	10 3 27.6 6 17.2	9.843 6095 8 8241	IO 26.6
21	2 17 58.81 2 16.97	+10 9 44.8 8 24.1	9.852 4336 8 9234	IO 25.0
22	2 20 15.78 2 31.04	10 18 8.9 10 25.7	9.861 3570 8 9982	IO 23.7
23	2 22 46.82 2 44.79	10 28 34.6 12 21.9	9.870 3552 9 0515	IO 22.6
24	2 25 31.61 2 58.21	10 40 56.5 14 12.4	9.879 4067 9 0856	IO 21.7
25	2 28 29.82 3 11.37	10 55 8.9 15 57.3	9.888 4923 9 1020	IO 21.0
26	2 31 41.19 3 24.28	11 11 6.2 17 36.7	9.897 5943 9 1032	IO 20.6
27	2 35 5.47 3 36.97	+11 28 42.9 19 10.3	9.906 6975 9 0903	IO 20.4
28	2 38 42.44 3 49.47	11 47 53.2 20 38.2	9.915 7878 9 0645	IO 20.3
29	2 42 31.91 4 1.85	12 8 31.4 22 0.5	9.924 8523 9 0269	IO 20.5
30	2 46 33.76 4 14.10	12 30 31.9 23 17.1	9.933 8792 8 9782	IO 20.9
31	2 50 47.86 4 26.29	12 53 49.0 24 28.1	9.942 8574 8 9191	IO 21.5
Juni 1	2 55 14.15 4 38.45	13 18 17.1 25 33.3	9.951 7765 8 8496	IO 22.3
2	2 59 52.60 4 50.60	+13 43 50.4 26 32.8	9.960 6261 8 7702	IO 23.2
3	3 4 43.20 5 2.79	14 10 23.2 27 26.5	9.969 3963 8 6807	IO 24.4
4	3 9 45.99 5 15.05	14 37 49.7 28 14.1	9.978 0770 8 5809	IO 25.8
5	3 15 1.04 5 27.41	15 6 3.8 28 55.7	9.986 6579 8 4705	IO 27.4
6	3 20 28.45 5 39.89	15 34 59.5 29 30.9	9.995 1284 8 3487	IO 29.3
7	3 26 8.34 5 52.52	16 4 30.4 29 59.5	0.003 4771 8 2153	IO 31.3
8	3 32 0.86 6 5.30	+16 34 29.9 30 21.1	0.011 6924 8 0691	IO 33.5
9	3 38 6.16 6 18.26	17 4 51.0 30 35.6	0.019 7615 7 9090	IO 36.0
10	3 44 24.42 6 31.40	17 35 26.6 30 42.5	0.027 6705 7 7343	IO 38.7
11	3 50 55.82 6 44.71	18 6 9.1 30 41.2	0.035 4048 7 5433	IO 41.6
12	3 57 40.53 6 58.17	18 36 50.3 30 31.4	0.042 9481 7 3349	IO 44.7
13	4 4 38.70	+19 7 21.7	0.050 2830	

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juni 13	4 ^h 4 ^m 38.70	7 ^m 11.75	+19 ^o 7' 21.7	0.050 2830
14	4 11 50.45	7 25.40	19 37 34.0	0.057 3906
15	4 19 15.85	7 39.03	20 7 17.6	0.064 2505
16	4 26 54.88	7 52.60	20 36 22.3	0.070 8417
17	4 34 47.48	8 5.96	21 4 37.2	0.077 1415
18	4 42 53.44	8 19.02	21 31 50.9	0.083 1262
19	4 51 12.46	8 31.62	+21 57 51.9	0.088 7720
20	4 59 44.08	8 43.58	22 22 28.0	0.094 0550
21	5 8 27.66	8 54.75	22 45 26.9	0.098 9516
22	5 17 22.41	9 4.93	23 6 36.8	0.103 4394
23	5 26 27.34	9 13.95	23 25 46.0	0.107 4977
24	5 35 41.29	9 21.66	23 42 43.3	0.111 1085
25	5 45 2.95	9 27.90	+23 57 18.7	0.114 2573
26	5 54 30.85	9 32.54	24 9 23.5	0.116 9332
27	6 4 3.39	9 35.53	24 18 50.2	0.119 1298
28	6 13 38.92	9 36.81	24 25 33.2	0.120 8452
29	6 23 15.73	9 36.43	24 29 28.8	0.122 0823
30	6 32 52.16	9 34.39	24 30 35.1	0.122 8486
Juli 1	6 42 26.55	9 30.82	+24 28 52.1	0.123 1552
2	6 51 57.37	9 25.81	24 24 21.7	0.123 0175
3	7 1 23.18	9 19.52	24 17 7.3	0.122 4534
4	7 10 42.70	9 12.10	24 7 13.8	0.121 4834
5	7 19 54.80	9 3.72	23 54 47.0	0.120 1294
6	7 28 58.52	8 54.52	23 39 54.1	0.118 4135
7	7 37 53.04	8 44.67	+23 22 42.7	0.116 3591
8	7 46 37.71	8 34.32	23 3 20.8	0.113 9886
9	7 55 12.03	8 23.57	22 41 56.8	0.111 3239
10	8 3 35.60	8 12.57	22 18 39.2	0.108 3859
11	8 11 48.17	8 1.39	21 53 36.4	0.105 1943
12	8 19 49.56	7 50.12	21 26 56.7	0.101 7673
13	8 27 39.68	7 38.85	+20 58 48.2	0.098 1215
14	8 35 18.53	7 27.61	20 29 18.9	0.094 2723
15	8 42 46.14	7 16.45	19 58 36.2	0.090 2336
16	8 50 2.59	7 5.39	19 26 47.3	0.086 0179
17	8 57 7.98	6 54.49	18 53 59.2	0.081 6356
18	9 4 2.47	6 43.75	18 20 18.4	0.077 0967
19	9 10 46.22	6 33.13	+17 45 51.2	0.072 4098
20	9 17 19.35	6 22.71	17 10 43.4	0.067 5821
21	9 23 42.06	6 12.45	16 35 0.9	0.062 6201
22	9 29 54.51	6 2.35	15 58 49.1	0.057 5292
23	9 35 56.86	5 52.39	15 22 13.1	0.052 3138
24	9 41 49.25		+14 45 17.8	0.046 9778

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juli 24	9 ^h 41 ^m 49.25 ^s 5 42.56 ^m	+ 14° 45' 17.8"	0.046 9778	13 ^h 39.8 ^m
25	9 47 31.81 5 32.86	14 8 8.1 37 9.7	0.041 5243 5 4535	13 41.5
26	9 53 4.67 5 23.25	13 30 48.5 37 19.6	0.035 9557 5 5686	13 43.0
27	9 58 27.92 5 13.74	12 53 23.5 37 25.0	0.030 2737 5 6820	13 44.4
28	10 3 41.66 5 4.27	12 15 57.4 37 26.1	0.024 4798 5 7939	13 45.6
29	10 8 45.93 4 54.83	11 38 34.5 37 22.9	0.018 5751 5 9047	13 46.6
30	10 13 40.76 4 45.39	+ 11 1 19.1 37 15.4	0.012 5599 6 0152	13 47.5
31	10 18 26.15 4 35.95	10 24 15.2 37 3.9	0.006 4346 6 1253	13 48.2
Aug. 1	10 23 2.10 4 26.43	10 24 15.2 36 48.1	0.000 1995 6 2351	13 48.8
2	10 27 28.53 4 16.83	9 47 27.1 36 28.2	9.993 8544 6 3451	13 49.2
3	10 31 45.36 4 7.11	9 10 58.9 36 4.0	9.993 8544 6 4553	13 49.4
4	10 35 52.47 3 57.23	8 34 54.9 35 35.4	9.987 3991 6 5651	13 49.5
5	10 39 49.70 3 47.15	7 59 19.5 35 2.6	9.980 8340 6 6749	13 49.4
6	10 43 36.85 3 36.82	+ 7 24 16.9 34 25.0	9.974 1591 6 7842	13 49.2
7	10 47 13.67 3 26.22	6 49 51.9 33 42.6	9.967 3749 6 8926	13 48.7
8	10 50 39.89 3 15.30	6 16 9.3 32 55.3	9.960 4823 6 9994	13 48.1
9	10 53 55.19 3 4.02	5 43 14.0 32 2.7	9.953 4829 7 1039	13 47.3
10	10 56 59.21 2 52.30	5 11 11.3 31 4.8	9.946 3790 7 2056	13 46.3
11	10 59 51.51 2 40.12	4 40 6.5 30 0.9	9.939 1734 7 3026	13 45.2
12	11 2 31.63 2 27.43	+ 4 10 5.6 28 50.5	9.931 8708 7 3935	13 43.8
13	11 4 59.06 2 14.18	3 41 15.1 27 33.7	9.924 4773 7 4773	13 42.2
14	11 7 13.24 2 0.32	3 13 41.4 26 9.8	9.917 0000 7 5513	13 40.3
15	11 9 13.56 1 45.81	2 47 31.6 24 38.4	9.909 4487 7 6127	13 38.3
16	11 10 59.37 1 30.63	2 22 53.2 22 58.8	9.901 8360 7 6592	13 35.9
17	11 12 30.00 1 14.72	1 59 54.4 21 10.5	9.894 1768 7 6865	13 33.4
18	11 13 44.72 0 58.09	+ 1 38 43.9 19 13.3	9.886 4903 7 6909	13 30.5
19	11 14 42.81 0 40.75	1 19 30.6 17 6.3	9.878 7994 7 6675	13 27.4
20	11 15 23.56 0 22.69	1 2 24.3 14 49.3	9.871 1319 7 6114	13 24.0
21	11 15 46.25 0 3.98	0 47 35.0 12 21.9	9.863 5205 7 5162	13 20.2
22	11 15 50.23 0 15.32	0 35 13.1 9 43.8	9.856 0043 7 3751	13 16.2
23	11 15 34.91 0 35.08	0 25 29.3 6 55.0	9.848 6292 7 1809	13 11.8
24	11 14 59.83 0 55.13	+ 0 18 34.3 3 55.8	9.841 4483 6 9261	13 7.1
25	11 14 4.70 1 15.26	0 14 38.5 0 46.6	9.834 5222 6 6022	13 2.1
26	11 12 49.44 1 35.22	0 13 51.9 2 31.4	9.827 9200 6 2011	12 56.8
27	11 11 14.22 1 54.66	0 16 23.3 5 56.9	9.821 7189 5 7150	12 51.1
28	11 9 19.56 2 13.18	0 22 20.2 9 27.8	9.816 0039 5 1364	12 45.1
29	11 7 6.38 2 30.37	0 31 48.0 13 1.0	9.810 8675 4 4597	12 38.8
30	11 4 36.01 2 45.70	+ 0 44 49.0 16 33.3	9.806 4078 3 6809	12 32.2
31	11 1 50.31 2 58.67	1 1 22.3 20 0.3	9.802 7269 2 7992	12 25.4
Sept. 1	10 58 51.64 3 8.73	1 21 22.6 23 17.4	9.799 9277 1 8168	12 18.5
2	10 55 42.91 3 15.40	1 44 40.0 26 19.1	9.798 1109 7404	12 11.4
3	10 52 27.51	2 10 59.1 29 0.1	9.797 3705 4187	12 4.2
		+ 2 39 59.2	9.797 7892	

Tag	Oh Welt-Zeit			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Sept. 3	10 ^h 52 ^m 27.51 ^s 3 18.22	+2° 39' 59.2" 31 14.9	9.797 7892	12 ^h 4.2
4	10 49 9.29 3 16.85	3 11 14.1 32 58.7	9.799 4341	II 57.0
5	10 45 52.44 3 11.02	3 44 12.8 34 7.5	9.802 3520	II 49.8
6	10 42 41.42 3 0.64	4 18 20.3 34 38.2	9.806 5661	II 42.8
7	10 39 40.78 2 45.78	4 52 58.5 34 29.6	9.812 0736	II 36.0
8	10 36 55.00 2 26.64	5 27 28.1 33 41.4	9.818 8452	II 29.4
9	10 34 28.36 2 3.57	+6 1 9.5 32 14.7	9.826 8246	II 23.3
10	10 32 24.79 1 37.04	6 33 24.2 30 12.0	9.835 9312	II 17.5
11	10 30 47.75 1 7.63	7 3 36.2 27 36.9	9.846 0635	II 12.2
12	10 29 40.12 0 35.97	7 31 13.1 24 33.3	9.857 1028	II 7.4
13	10 29 4.15 0 2.70	7 55 46.4 21 5.9	9.868 9186	II 3.1
14	10 29 1.45 0 31.51	8 16 52.3 17 19.0	9.881 3722	IO 59.4
15	10 29 32.96 1 6.03	+8 34 11.3 13 17.6	9.894 3216	IO 56.2
16	10 30 38.99 1 40.26	8 47 28.9 9 5.7	9.907 6251	IO 53.6
17	10 32 19.25 2 13.65	8 56 34.6 4 47.7	9.921 1453	IO 51.6
18	10 34 32.90 2 45.72	9 1 22.3 0 27.5	9.934 7513	IO 50.2
19	10 37 18.62 3 16.09	9 1 49.8 3 51.2	9.948 3214	IO 49.2
20	10 40 34.71 3 44.42	8 57 58.6 8 5.1	9.961 7445	IO 48.8
21	10 44 19.13 4 10.46	+8 49 53.5 12 11.3	9.974 9213	IO 48.8
22	10 48 29.59 4 34.06	8 37 42.2 16 7.3	9.987 7660	IO 49.2
23	10 53 3.65 4 55.09	8 21 34.9 19 50.8	0.000 2058	IO 50.0
24	10 57 58.74 5 13.57	8 1 44.1 23 19.9	0.012 1810	IO 51.1
25	II 3 12.31 5 29.55	7 38 24.2 26 33.4	0.023 6457	IO 52.5
26	II 8 41.86 5 43.10	7 11 50.8 29 30.4	0.034 5662	IO 54.1
27	II 14 24.96 5 54.40	+6 42 20.4 32 10.4	0.044 9200	IO 56.0
28	II 20 19.36 6 3.63	6 10 10.0 34 33.4	0.054 6957	IO 58.1
29	II 26 22.99 6 10.99	5 35 36.6 36 39.6	0.063 8906	II 0.2
30	II 32 33.98 6 16.69	4 58 57.0 38 29.7	0.072 5094	II 2.5
Okt. 1	II 38 50.67 6 20.94	4 20 27.3 40 4.3	0.080 5633	II 4.9
2	II 45 11.61 6 23.94	3 40 23.0 41 24.5	0.088 0682	II 7.3
3	II 51 35.55 6 25.90	+2 58 58.5 42 31.3	0.095 0432	II 9.8
4	II 58 1.45 6 27.00	2 16 27.2 43 25.8	0.101 5104	II 12.3
5	II 4 28.45 6 27.38	1 33 1.4 44 9.0	0.107 4933	II 14.8
6	II 10 55.83 6 27.21	0 48 52.4 44 42.0	0.113 0157	II 17.3
7	II 17 23.04 6 26.60	+0 4 10.4 45 6.0	0.118 1017	II 19.8
8	II 23 49.64 6 25.64	-0 40 55.6 45 21.8	0.122 7750	II 22.3
9	II 30 15.28 6 24.44	-1 26 17.4 45 30.3	0.127 0588	II 24.8
10	II 36 39.72 6 23.09	2 11 47.7 45 32.3	0.130 9749	II 27.3
11	II 43 2.81 6 21.62	2 57 20.0 45 28.4	0.134 5440	II 29.7
12	II 49 24.43 6 20.10	3 42 48.4 45 19.5	0.137 7857	II 32.1
13	II 55 44.53 6 18.57	4 28 7.9 45 5.9	0.140 7180	II 34.5
14	13 2 3.10	-5 13 13.8	0.143 3583	II 36.9

Tag	0 ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	

1931				
Okt. 14	13 ^h 2 ^m 3 ^s .10 ^a 6 ^m 17.08	— 5° 13' 13.8''	0.143 3583	II 36.9
15	13 8 20.18 6 15.63	5 58 2.1 44 48.3	0.145 7219	II 39.2
16	13 14 35.81 6 14.26	6 42 29.3 44 27.2	0.147 8228	II 41.5
17	13 20 50.07 6 12.99	7 26 32.1 44 2.8	0.149 6742	II 43.8
18	13 27 3.06 6 11.83	8 10 7.6 43 35.5	0.151 2879	II 46.1
19	13 33 14.89 6 10.80	8 53 13.1 43 5.5	0.152 6746	II 48.3
20	13 39 25.69 6 9.87	— 9 35 46.5 42 33.4	0.153 8439	II 50.6
21	13 45 35.56 6 9.08	10 17 45.5 41 59.0	0.154 8044	II 52.8
22	13 51 44.64 6 8.43	10 59 8.2 41 22.7	0.155 5637	II 55.0
23	13 57 53.07 6 7.91	11 39 52.8 40 44.6	0.156 1286	II 57.2
24	14 4 0.98 6 7.50	12 19 57.6 40 4.8	0.156 5049	II 59.4
25	14 10 8.48 6 7.25	12 59 21.2 39 23.6	0.156 6977	II 1.6
26	14 16 15.73 6 7.10	— 13 38 2.1 38 40.9	0.156 7114	II 3.7
27	14 22 22.83 6 7.07	14 15 58.7 37 56.6	0.156 5496	II 5.9
28	14 28 29.90 6 7.18	14 53 9.8 37 11.1	0.156 2155	II 8.1
29	14 34 37.08 6 7.36	15 29 34.0 36 24.2	0.155 7113	II 10.3
30	14 40 44.44 6 7.67	16 5 10.2 35 36.2	0.155 0387	II 12.5
31	14 46 52.11 6 8.05	16 39 56.9 34 46.7	0.154 1987	II 14.7
Nov. 1	14 53 0.16 6 8.53	— 17 13 53.0 33 56.1	0.153 1921	II 16.9
2	14 59 8.69 6 9.07	17 46 57.2 33 4.2	0.152 0189	II 19.1
3	15 5 17.76 6 9.68	18 19 8.4 32 11.2	0.150 6784	II 21.3
4	15 11 27.44 6 10.33	18 50 25.2 31 16.8	0.149 1697	II 23.5
5	15 17 37.77 6 11.02	19 20 46.3 30 21.1	0.147 4910	II 25.7
6	15 23 48.79 6 11.72	19 50 10.5 29 24.2	0.145 6401	II 28.0
7	15 30 0.51 6 12.43	— 20 18 36.5 28 26.0	0.143 6147	II 30.3
8	15 36 12.94 6 13.13	20 46 2.9 27 26.4	0.141 4111	II 32.5
9	15 42 26.07 6 13.79	21 12 28.3 26 25.4	0.139 0256	II 34.8
10	15 48 39.86 6 14.39	21 42 28.3 25 23.0	0.136 4544	II 37.1
11	15 54 54.25 6 14.92	21 37 51.3 24 19.4	0.133 6927	II 39.4
12	16 1 9.17 6 15.33	22 2 10.7 23 14.2	0.130 7344	II 41.7
13	16 7 24.50 6 15.62	22 25 24.9 22 7.5	0.127 5741	II 44.1
14	16 13 40.12 6 15.75	— 22 47 32.4 20 59.4	0.124 2052	II 46.4
15	16 19 55.87 6 15.68	23 8 31.8 19 49.9	0.120 6205	II 48.7
16	16 26 11.55 6 15.38	23 28 21.7 18 38.9	0.116 8124	II 51.0
17	16 32 26.93 6 14.80	23 47 0.6 17 26.3	0.112 7721	II 53.3
18	16 38 41.73 6 13.91	24 4 26.9 16 12.2	0.108 4905	II 55.6
19	16 44 55.64 6 12.65	24 20 39.1 14 56.8	0.103 9579	II 57.9
20	16 51 8.29 6 10.96	— 24 35 35.9 13 39.9	0.099 1637	II 59.4
21	16 57 19.25 6 8.76	24 49 15.8 12 21.6	0.094 0962	II 61.7
22	17 3 28.01 6 6.01	25 1 37.4 11 1.9	0.088 7434	II 64.0
23	17 9 34.02 6 2.60	25 12 39.3 9 40.9	0.083 0927	II 66.3
24	17 15 36.62	25 22 20.2 8 18.9	0.077 1304	II 68.6

Tag	O ^b Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Nov. 24	17 ^h 15 ^m 36. ^s 62 ^m 58.45 ^s	—25° 30' 39.1"	0.077 1304	13 ^h 8. ^m 8
25	17 21 35.07 5 53.45	25 37 34.8 6 55.7	0.070 8425	6 2879 13 10.8
26	17 27 28.52 5 47.49	25 43 6.1 5 31.3	0.064 2143	6 6282 13 12.7
27	17 33 16.01 5 40.42	25 47 12.5 4 6.4	0.057 2308	6 9835 13 14.5
28	17 38 56.43 5 32.10	25 49 53.5 2 41.0	0.049 8773	7 3535 13 16.1
29	17 44 28.53 5 22.38	25 51 8.6 1 15.1	0.042 1389	7 7384 13 17.6
			0 10.8	
30	17 49 50.91 5 11.05	—25 50 57.8 1 36.5	0.034 0013	8 5496 13 18.9
Dez. 1	17 55 1.96 4 57.91	25 49 21.3 3 1.5	0.025 4517	8 9723 13 20.1
2	17 59 59.87 4 42.72	25 46 19.8 4 25.2	0.016 4794	9 4030 13 21.0
3	18 4 42.59 4 25.26	25 41 54.6 5 47.7	0.007 0764	9 8372 13 21.6
4	18 9 7.85 4 5.25	25 36 6.9 7 8.1	9.997 2392	10 2690 13 21.9
5	18 13 13.10 3 42.42	25 28 58.8 8 26.0	9.986 9702	10 6901 13 21.8
6	18 16 55.52 3 16.50	—25 20 32.8 9 40.7	9.976 2801	11 0900 13 21.3
7	18 20 12.02 2 47.23	25 10 52.1 10 51.9	9.965 1901	11 4552 13 20.4
8	18 22 59.25 2 14.43	25 0 0.2 11 59.1	9.953 7349	11 7681 13 18.9
9	18 25 13.68 1 37.94	24 48 1.1 13 2.1	9.941 9668	12 0076 13 16.9
10	18 26 51.62 0 57.81	24 34 59.0 14 0.4	9.929 9592	12 1486 13 14.3
11	18 27 49.43 0 14.18	24 20 58.6 14 54.1	9.917 8106	12 1615 13 10.9
12	18 28 3.61 0 32.50	—24 6 4.5 15 42.9	9.905 6491	12 0137 13 6.8
13	18 27 31.11 1 21.47	23 50 21.6 16 27.3	9.893 6354	11 6718 13 1.9
14	18 26 9.64 2 11.59	23 33 54.3 17 6.9	9.881 9636	11 1027 12 56.1
15	18 23 58.05 3 1.28	23 16 47.4 17 41.4	9.870 8609	10 2795 12 49.6
16	18 20 56.77 3 48.64	22 59 6.0 18 9.3	9.860 5814	9 1856 12 42.2
17	18 17 8.13 4 31.41	22 40 56.7 18 29.0	9.851 3958	7 8204 12 34.1
18	18 12 36.72 5 7.27	—22 22 27.7 18 37.4	9.843 5754	6 2035 12 25.4
19	18 7 29.45 5 34.06	22 3 50.3 18 30.7	9.837 3719	4 3775 12 16.1
20	18 1 55.39 5 50.11	21 45 19.6 18 4.8	9.832 9944	2 464 12 6.5
21	17 56 5.28 5 54.44	21 27 14.8 17 16.4	9.830 5880	3701 11 56.8
22	17 50 10.84 5 46.97	21 9 58.4 16 3.4	9.830 2179	1 6447 11 47.0
23	17 44 23.87 5 28.60	20 53 55.0 14 25.8	9.831 8626	3 5554 11 37.5
24	17 38 55.27 5 0.80	—20 39 29.2 12 26.5	9.835 4180	5 2926 11 28.4
25	17 33 54.47 4 25.62	20 27 2.7 10 9.8	9.840 7106	6 8061 11 19.7
26	17 29 28.85 3 45.30	20 16 52.9 7 42.1	9.847 5167	8 0688 11 11.7
27	17 25 43.55 3 1.38	20 9 10.8 5 9.1	9.855 5855	9 0735 11 4.4
28	17 22 41.67 2 17.31	20 4 1.7 2 37.5	9.864 6590	9 8301 10 57.8
29	17 20 24.36 1 33.03	20 1 24.2 0 12.4	9.874 4891	10 3602 10 51.9
30	17 18 51.33 0 50.16	—20 1 11.8 2 2.0	9.884 8493	10 6920 10 46.8
31	17 18 1.17 0 9.51	20 3 13.8 4 3.2	9.895 5413	10 8556 10 42.3
32	17 17 51.66	—20 7 17.0	9.906 3969	10 38.5

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Jan. 0	15 ^h 45 ^m 13.09 ^s 2 25.25	—15° 40' 23.2" 5 4.8	9.631 3192 6 9364	9 ^h 9.9
1	15 47 38.34 2 30.61	15 45 28.0 5 33.0	9.638 2556 6 8868	9 8.4
2	15 50 8.95 2 35.84	15 51 1.0 5 59.3	9.645 1424 6 8345	9 7.0
3	15 52 44.79 2 40.90	15 57 0.3 6 23.2	9.651 9769 6 7798	9 5.7
4	15 55 25.69 2 45.80	16 3 23.5 6 45.1	9.658 7567 6 7227	9 4.4
5	15 58 11.49 2 50.55	16 10 8.6 7 4.9	9.665 4794 6 6637	9 3.3
6	16 1 2.04 2 55.18	—16 17 13.5 7 22.8	9.672 1431 6 6031	9 2.2
7	16 3 57.22 2 59.66	16 24 36.3 7 38.7	9.678 7462 6 5409	9 1.2
8	16 6 56.88 3 3.99	16 32 15.0 7 52.5	9.685 2871 6 4776	9 0.3
9	16 10 0.87 3 8.19	16 40 7.5 8 4.4	9.691 7647 6 4130	8 59.4
10	16 13 9.06 3 12.25	16 48 11.9 8 14.5	9.698 1777 6 3476	8 58.7
11	16 16 21.31 3 16.20	16 56 26.4 8 22.7	9.704 5253 6 2815	8 58.0
12	16 19 37.51 3 20.01	—17 4 49.1 8 29.2	9.710 8068 6 2153	8 57.3
13	16 22 57.52 3 23.70	17 13 18.3 8 33.8	9.717 0221 6 1488	8 56.7
14	16 26 21.22 3 27.28	17 21 52.1 8 36.9	9.723 1709 6 0823	8 56.2
15	16 29 48.50 3 30.74	17 30 29.0 8 38.3	9.729 2532 6 0159	8 55.7
16	16 33 19.24 3 34.09	17 39 7.3 8 38.2	9.735 2691 5 9498	8 55.3
17	16 36 53.33 3 37.34	17 47 45.5 8 36.4	9.741 2189 5 8842	8 55.0
18	16 40 30.67 3 40.48	—17 56 21.9 8 33.2	9.747 1031 5 8190	8 54.7
19	16 44 11.15 3 43.54	18 4 55.1 8 28.7	9.752 9221 5 7544	8 54.4
20	16 47 54.69 3 46.49	18 13 23.8 8 22.6	9.758 6765 5 6902	8 54.2
21	16 51 41.18 3 49.36	18 21 46.4 8 15.3	9.764 3667 5 6269	8 54.1
22	16 55 30.54 3 52.15	18 30 1.7 8 6.7	9.769 9936 5 5643	8 54.0
23	16 59 22.69 3 54.85	18 38 8.4 7 57.0	9.775 5579 5 5024	8 53.9
24	17 3 17.54 3 57.48	—18 46 5.4 7 45.9	9.781 0603 5 4414	8 53.9
25	17 7 15.02 4 0.03	18 53 51.3 7 33.7	9.786 5017 5 3810	8 54.0
26	17 11 15.05 4 2.49	19 1 25.0 7 20.4	9.791 8827 5 3215	8 54.1
27	17 15 17.54 4 4.89	19 8 45.4 7 5.9	9.797 2042 5 2628	8 54.3
28	17 19 22.43 4 7.21	19 15 51.3 6 50.2	9.802 4670 5 2048	8 54.5
29	17 23 29.64 4 9.47	19 22 41.5 6 33.7	9.807 6718 5 1475	8 54.7
30	17 27 39.11 4 11.66	—19 29 15.2 6 16.1	9.812 8193 5 0911	8 55.0
31	17 31 50.77 4 13.79	19 35 31.3 5 57.6	9.817 9104 5 0355	8 55.3
Febr. 1	17 36 4.56 4 15.85	19 41 28.9 5 38.1	9.822 9459 4 9803	8 55.6
2	17 40 20.41 4 17.83	19 47 7.0 5 17.6	9.827 9262 4 9258	8 55.9
3	17 44 38.24 4 19.76	19 52 24.6 4 56.4	9.832 8520 4 8719	8 56.3
4	17 48 58.00 4 21.63	19 57 21.0 4 34.2	9.837 7239 4 8186	8 56.8
5	17 53 19.63 4 23.41	—20 1 55.2 4 11.2	9.842 5425 4 7657	8 57.2
6	17 57 43.04 4 25.14	20 6 6.4 3 47.4	9.847 3082 4 7132	8 57.7
7	18 2 8.18 4 26.79	20 9 53.8 3 22.9	9.852 0214 4 6614	8 58.2
8	18 6 34.97 4 28.36	20 13 16.7 2 57.6	9.856 6828 4 6100	8 58.8
9	18 11 3.33 4 29.87	20 16 14.3 2 31.5	9.861 2928 4 5593	8 59.3
10	18 15 33.20	—20 18 45.8	9.865 8521	

Tag	O ^b Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Febr. 10	18 ^h 15 ^m 33.20 ^s 4 31.30	—20° 18' 45.8" 2' 4.9"	9.865 8521 4 5090	8 ^h 59.3 ^m
11	18 20 4.50 4 32.65	20 20 50.7 1 37.7	9.870 3611 4 4596	8 59.9
12	18 24 37.15 4 33.93	20 22 28.4 1 9.9	9.874 8207 4 4166	9 0.5
13	18 29 11.08 4 35.13	20 23 38.3 0 41.6	9.879 2313 4 3624	9 1.2
14	18 33 46.21 4 36.27	20 24 19.9 0 12.9	9.883 5937 4 3190	9 1.8
15	18 38 22.48 4 37.32	20 24 32.8 0 16.3	9.887 9087 4 2683	9 2.5
16	18 42 59.80 4 38.32	—20 24 16.5 0 46.0	9.892 1770 4 2222	9 3.2
17	18 47 38.12 4 39.24	20 23 30.5 1 16.1	9.896 3992 4 1770	9 3.9
18	18 52 17.36 4 40.08	20 22 14.4 1 46.5	9.900 5762 4 1324	9 4.6
19	18 56 57.44 4 40.87	20 20 27.9 2 17.1	9.904 7086 4 0887	9 5.3
20	19 1 38.31 4 41.59	20 18 10.8 2 48.0	9.908 7973 4 0457	9 6.1
21	19 6 19.90 4 42.26	20 15 22.8 3 19.2	9.912 8430 4 0034	9 6.8
22	19 11 2.16 4 42.84	—20 12 3.6 3 50.6	9.916 8464 3 9617	9 7.6
23	19 15 45.00 4 43.37	20 8 13.0 4 22.1	9.920 8081 3 9208	9 8.4
24	19 20 28.37 4 43.85	20 3 50.9 4 53.7	9.924 7289 3 8806	9 9.2
25	19 25 12.22 4 44.26	19 58 57.2 5 25.6	9.928 6095 3 8412	9 10.0
26	19 29 56.48 4 44.64	19 53 31.6 5 57.4	9.932 4507 3 8023	9 10.7
27	19 34 41.12 4 44.93	19 47 34.2 6 29.3	9.936 2530 3 7642	9 11.6
28	19 39 26.05 4 45.19	—19 41 4.9 7 1.2	9.940 0172 3 7265	9 12.4
März 1	19 44 11.24 4 45.40	19 34 3.7 7 33.2	9.943 7437 3 6894	9 13.2
2	19 48 56.64 4 45.57	19 26 30.5 8 5.2	9.947 4331 3 6509	9 14.0
3	19 53 42.21 4 45.67	19 18 25.3 8 37.0	9.951 0860 3 6168	9 14.8
4	19 58 27.88 4 45.75	19 9 48.3 9 8.9	9.954 7028 3 5811	9 15.6
5	20 3 13.63 4 45.76	19 0 39.4 9 40.7	9.958 2839 3 5456	9 16.4
6	20 7 59.39 4 45.75	—18 50 58.7 10 12.3	9.961 8295 3 5107	9 17.3
7	20 12 45.14 4 45.68	18 40 46.4 10 43.7	9.965 3402 3 4758	9 18.1
8	20 17 30.82 4 45.56	18 30 2.7 11 15.0	9.968 8160 3 4413	9 18.9
9	20 22 16.38 4 45.41	18 18 47.7 11 46.1	9.972 2573 3 4072	9 19.7
10	20 27 1.79 4 45.22	18 7 1.6 12 16.9	9.975 6645 3 3734	9 20.5
11	20 31 47.01 4 44.97	17 54 44.7 12 47.4	9.979 0379 3 3399	9 21.3
12	20 36 31.98 4 44.70	—17 41 57.3 13 17.7	9.982 3778 3 3066	9 22.2
13	20 41 16.68 4 44.39	17 28 39.6 13 47.6	9.985 6844 3 2738	9 23.0
14	20 46 1.07 4 44.03	17 14 52.0 14 17.1	9.988 9582 3 2415	9 23.7
15	20 50 45.10 4 43.66	17 0 34.9 14 46.2	9.992 1997 3 2096	9 24.5
16	20 55 28.76 4 43.24	16 45 48.7 15 15.1	9.995 4093 3 1781	9 25.3
17	21 0 12.00 4 42.79	16 30 33.6 15 43.4	9.998 5874 3 1469	9 26.1
18	21 4 54.79 4 42.31	—16 14 50.2 16 11.2	0.001 7343 3 1162	9 26.9
19	21 9 37.10 4 41.83	15 58 39.0 16 38.8	0.004 8505 3 0859	9 27.6
20	21 14 18.93 4 41.32	15 42 0.2 17 5.7	0.007 9364 3 0561	9 28.4
21	21 19 0.25 4 40.78	15 24 54.5 17 32.3	0.010 9925 3 0267	9 29.1
22	21 23 41.03 4 40.24	15 7 22.2 17 58.3	0.014 0192 2 9976	9 29.8
23	21 28 21.27	—14 49 23.9	0.017 0168	9 30.6

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
März 23	21 ^h 28 ^m 21.27 ^s 4 39.68	—14 ^h 49 ^m 23.9 ^s 18' 23.9"	0.017 0168	9 ^h 30.6 ^m
24	21 33 0.95 4 39.10	14 31 0.0 18 48.8	0.019 9858	2 9690 9 31.3
25	21 37 40.05 4 38.53	14 12 11.2 19 13.4	0.022 9267	2 9409 9 32.0
26	21 42 18.58 4 37.94	13 52 57.8 19 37.3	0.025 8398	2 8859 9 32.7
27	21 46 56.52 4 37.35	13 33 20.5 20 0.8	0.028 7257	2 8591 9 33.4
28	21 51 33.87 4 36.75	13 13 19.7 20 23.7	0.031 5848	2 8326 9 34.0
29	21 56 10.62 4 36.17	—12 52 56.0 20 46.0	0.034 4174	2 8064 9 34.7
30	22 0 46.79 4 35.58	12 32 10.0 21 7.9	0.037 2238	2 7806 9 35.4
31	22 5 22.37 4 35.00	12 11 2.1 21 29.1	0.040 0044	2 7551 9 36.0
April 1	22 9 57.37 4 34.43	11 49 33.0 21 49.9	0.042 7595	2 7299 9 36.7
2	22 14 31.80 4 33.87	11 27 43.1 22 10.1	0.045 4894	2 7048 9 37.3
3	22 19 5.67 4 33.32	11 5 33.0 22 29.7	0.048 1942	2 6798 9 37.9
4	22 23 38.99 4 32.77	—10 43 3.3 22 48.7	0.050 8740	2 6550 9 38.5
5	22 28 11.76 4 32.24	10 20 14.6 23 7.2	0.053 5290	2 6304 9 39.1
6	22 32 44.00 4 31.73	9 57 7.4 23 25.0	0.056 1594	2 6059 9 39.7
7	22 37 15.73 4 31.22	9 33 42.4 23 42.3	0.058 7653	2 5814 9 40.3
8	22 41 46.95 4 30.72	9 10 0.1 23 58.9	0.061 3467	2 5571 9 40.9
9	22 46 17.67 4 30.24	8 46 1.2 24 14.9	0.063 9038	2 5330 9 41.4
10	22 50 47.91 4 29.77	—8 21 46.3 24 30.2	0.066 4368	2 5090 9 42.0
11	22 55 17.68 4 29.32	7 57 16.1 24 44.9	0.068 9458	2 4852 9 42.5
12	22 59 47.00 4 28.89	7 32 31.2 24 59.0	0.071 4310	2 4616 9 43.1
13	23 4 15.89 4 28.48	7 7 32.2 25 12.5	0.073 8926	2 4379 9 43.6
14	23 8 44.37 4 28.08	6 42 19.7 25 25.1	0.076 3305	2 4146 9 44.1
15	23 13 12.45 4 27.70	6 16 54.6 25 37.3	0.078 7451	2 3916 9 44.7
16	23 17 40.15 4 27.35	—5 51 17.3 25 48.8	0.081 1367	2 3687 9 45.2
17	23 22 7.50 4 27.02	5 25 28.5 25 59.4	0.083 5054	2 3461 9 45.7
18	23 26 34.52 4 26.72	4 59 29.1 26 9.6	0.085 8515	2 3237 9 46.2
19	23 31 1.24 4 26.42	4 33 19.5 26 19.1	0.088 1752	2 3015 9 46.7
20	23 35 27.66 4 26.16	4 7 0.4 26 27.9	0.090 4767	2 2794 9 47.2
21	23 39 53.82 4 25.93	3 40 32.5 26 36.1	0.092 7561	2 2576 9 47.7
22	23 44 19.75 4 25.73	—3 13 56.4 26 43.5	0.095 0137	2 2362 9 48.2
23	23 48 45.48 4 25.56	2 47 12.9 26 50.4	0.097 2499	2 2149 9 48.7
24	23 53 11.04 4 25.41	2 20 22.5 26 56.5	0.099 4648	2 1940 9 49.2
25	23 57 36.45 4 25.30	1 53 26.0 27 2.1	0.101 6588	2 1732 9 49.6
26	0 2 1.75 4 25.21	1 26 23.9 27 7.1	0.103 8320	2 1527 9 50.1
27	0 6 26.96 4 25.17	0 59 16.8 27 11.2	0.105 9847	2 1324 9 50.6
28	0 10 52.13 4 25.15	—0 32 5.6 27 15.0	0.108 1171	2 1124 9 51.1
29	0 15 17.28 4 25.17	—0 4 50.6 27 18.1	0.110 2295	2 0926 9 51.5
30	0 19 42.45 4 25.23	+ 0 22 27.5 27 20.3	0.112 3221	2 0728 9 52.0
Mai 1	0 24 7.68 4 25.32	0 49 47.8 27 22.1	0.114 3949	2 0531 9 52.5
2	0 28 33.00 4 25.45	1 17 9.9 27 23.4	0.116 4480	2 0334 9 53.0
3	0 32 58.45	+ 1 44 33.3	0.118 4814	9 53.5

Tag	O ^b Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Mai 3	0 ^h 32 ^m 58.45 ^s 4 25.62	+ 1 ^h 44 ^m 33.3 ^s 27 23.8	0.118 4814 2 0138	9 53.5
4	0 37 24.07 4 25.82	2 11 57.1 27 23.6	0.120 4952 1 9943	9 54.0
5	0 41 49.89 4 26.04	2 39 20.7 27 22.9	0.122 4895 1 9747	9 54.4
6	0 46 15.93 4 26.31	3 6 43.6 27 21.4	0.124 4642 1 9552	9 54.9
7	0 50 42.24 4 26.62	3 34 5.0 27 19.2	0.126 4194 1 9357	9 55.4
8	0 55 8.86 4 26.94	4 1 24.2 27 16.4	0.128 3551 1 9161	9 55.9
9	0 59 35.80 4 27.31	+ 4 28 40.6 27 13.0	0.130 2712 1 8967	9 56.4
10	1 4 3.11 4 27.72	4 55 53.6 27 8.7	0.132 1679 1 8773	9 57.0
11	1 8 30.83 4 28.15	5 23 2.3 27 3.9	0.134 0452 1 8580	9 57.5
12	1 12 58.98 4 28.60	5 50 6.2 26 58.3	0.135 9032 1 8387	9 58.0
13	1 17 27.58 4 29.10	6 17 4.5 26 52.1	0.137 7419 1 8194	9 58.5
14	1 21 56.68 4 29.63	6 43 56.6 26 45.1	0.139 5613 1 8003	9 59.1
15	1 26 26.31 4 30.19	+ 7 10 41.7 26 37.6	0.141 3616 1 7812	9 59.6
16	1 30 56.50 4 30.77	7 37 19.3 26 29.2	0.143 1428 1 7622	10 0.2
17	1 35 27.27 4 31.38	8 3 48.5 26 20.2	0.144 9050 1 7433	10 0.8
18	1 39 58.65 4 32.03	8 30 8.7 26 10.4	0.146 6483 1 7245	10 1.4
19	1 44 30.68 4 32.70	8 56 19.1 25 59.9	0.148 3728 1 7058	10 2.0
20	1 49 3.38 4 33.40	9 22 19.0 25 48.9	0.150 0786 1 6873	10 2.6
21	1 53 36.78 4 34.13	+ 9 48 7.9 25 37.0	0.151 7659 1 6690	10 3.2
22	1 58 10.91 4 34.89	10 13 44.9 25 24.5	0.153 4349 1 6509	10 3.8
23	2 2 45.80 4 35.67	10 39 9.4 25 11.1	0.155 0858 1 6329	10 4.5
24	2 7 21.47 4 36.49	11 4 20.5 24 57.4	0.156 7187 1 6151	10 5.1
25	2 11 57.96 4 37.33	11 29 17.9 24 42.8	0.158 3338 1 5974	10 5.8
26	2 16 35.29 4 38.20	11 54 0.7 24 27.5	0.159 9312 1 5796	10 6.5
27	2 21 13.49 4 39.09	+ 12 18 28.2 24 11.5	0.161 5108 1 5621	10 7.2
28	2 25 52.58 4 40.02	12 42 39.7 23 54.9	0.163 0729 1 5449	10 7.9
29	2 30 32.60 4 40.97	13 6 34.6 23 37.6	0.164 6178 1 5276	10 8.6
30	2 35 13.57 4 41.94	13 30 12.2 23 19.5	0.166 1454 1 5104	10 9.4
31	2 39 55.51 4 42.93	13 53 31.7 23 0.9	0.167 6558 1 4933	10 10.1
Juni 1	2 44 38.44 4 43.95	14 16 32.6 22 41.5	0.169 1491 1 4761	10 10.9
2	2 49 22.39 4 44.98	+ 14 39 14.1 22 21.3	0.170 6252 1 4591	10 11.7
3	2 54 7.37 4 46.04	15 1 35.4 22 0.7	0.172 0843 1 4417	10 12.5
4	2 58 53.41 4 47.11	15 23 36.1 21 39.1	0.173 5260 1 4245	10 13.4
5	3 3 40.52 4 48.19	15 45 15.2 21 17.0	0.174 9505 1 4072	10 14.2
6	3 8 28.71 4 49.28	16 6 32.2 20 54.0	0.176 3577 1 3899	10 15.1
7	3 13 17.99 4 50.39	16 27 26.2 20 30.5	0.177 7476 1 3727	10 16.0
8	3 18 8.38 4 51.50	+ 16 47 56.7 20 6.2	0.179 1203 1 3553	10 16.9
9	3 22 59.88 4 52.62	17 8 2.9 19 41.1	0.180 4756 1 3380	10 17.8
10	3 27 52.50 4 53.73	17 27 44.0 19 15.3	0.181 8136 1 3207	10 18.7
11	3 32 46.23 4 54.86	17 46 59.3 18 49.1	0.183 1343 1 3035	10 19.7
12	3 37 41.09 4 55.98	18 5 48.4 18 21.9	0.184 4378 1 2861	10 20.7
13	3 42 37.07	+ 18 24 10.3	0.185 7239	10 21.7

		O ^h Welt-Zeit			Obere Kulmination in Greenwich
Tag		Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931					
Juni	13	3 ^h 42 ^m 37.07 ^s 4 ^m 57.10 ^s	+18° 24' 10.3"	0.185 7239	10 ^h 21.7 ^m
	14	3 47 34.17 4 58.21	18 42 4.5	0.186 9928	10 22.7
	15	3 52 32.38 4 59.31	18 59 30.3	0.188 2444	10 23.7
	16	3 57 31.69 5 0.40	19 16 26.9	0.189 4787	10 24.8
	17	4 2 32.09 5 1.47	19 32 53.8	0.190 6959	10 25.9
	18	4 7 33.56 5 2.54	19 48 50.3	0.191 8959	10 27.0
	19	4 12 36.10 5 3.60	+20 4 15.7	0.193 0790	10 28.1
	20	4 17 39.70 5 4.63	20 19 9.5	0.194 2452	10 29.2
	21	4 22 44.33 5 5.64	20 33 31.0	0.195 3947	10 30.3
	22	4 27 49.97 5 6.62	20 47 19.7	0.196 5276	10 31.5
	23	4 32 56.59 5 7.59	21 0 35.0	0.197 6439	10 32.7
	24	4 38 4.18 5 8.54	21 13 16.3	0.198 7438	10 33.9
	25	4 43 12.72 5 9.46	+21 25 23.1	0.199 8275	10 35.1
	26	4 48 22.18 5 10.34	21 36 54.9	0.200 8951	10 36.3
	27	4 53 32.52 5 11.20	21 47 51.2	0.201 9465	10 37.5
	28	4 58 43.72 5 12.03	21 58 11.5	0.202 9819	10 38.8
	29	5 3 55.75 5 12.82	22 7 55.3	0.204 0014	10 40.0
	30	5 9 8.57 5 13.59	22 17 2.1	0.205 0049	10 41.3
Juli	1	5 14 22.16 5 14.30	+22 25 31.6	0.205 9925	10 42.6
	2	5 19 36.46 5 14.99	22 33 23.3	0.206 9641	10 43.9
	3	5 24 51.45 5 15.63	22 40 36.9	0.207 9197	10 45.2
	4	5 30 7.08 5 16.23	22 47 11.9	0.208 8595	10 46.5
	5	5 35 23.31 5 16.77	22 53 8.0	0.209 7832	10 47.9
	6	5 40 40.08 5 17.28	22 58 24.9	0.210 6908	10 49.2
	7	5 45 57.36 5 17.73	+23 3 2.3	0.211 5824	10 50.6
	8	5 51 15.09 5 18.12	23 6 59.9	0.212 4579	10 51.9
	9	5 56 33.21 5 18.47	23 10 17.4	0.213 3173	10 53.3
	10	6 1 51.68 5 18.77	23 12 54.7	0.214 1607	10 54.7
	11	6 7 10.45 5 19.00	23 14 51.6	0.214 9879	10 56.0
	12	6 12 29.45 5 19.18	23 16 7.8	0.215 7990	10 57.4
	13	6 17 48.63 5 19.32	+23 16 43.2	0.216 5940	10 58.8
	14	6 23 7.95 5 19.39	23 16 37.8	0.217 3728	11 0.2
	15	6 28 27.34 5 19.41	23 15 51.4	0.218 1354	11 1.6
	16	6 33 46.75 5 19.35	23 14 24.1	0.218 8818	11 2.9
	17	6 39 6.10 5 19.25	23 12 15.9	0.219 6123	11 4.3
	18	6 44 25.35 5 19.09	23 9 26.7	0.220 3270	11 5.7
	19	6 49 44.44 5 18.88	+23 5 56.6	0.221 0259	11 7.1
	20	6 55 3.32 5 18.61	23 1 45.7	0.221 7089	11 8.4
	21	7 0 21.93 5 18.29	22 56 54.1	0.222 3762	11 9.8
	22	7 5 40.22 5 17.92	22 51 22.0	0.223 0280	11 11.2
	23	7 10 58.14 5 17.49	22 45 9.6	0.223 6644	11 12.5
	24	7 16 15.63	+22 38 17.0	0.224 2855	11 13.9

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juli 24	7 ^h 16 ^m 15.63 ^s 5 17.03	+22° 38' 17.0" 7 32.5	0.224 2855 6059	II 13.9
25	7 21 32.66 5 16.52	22 30 44.5 8 12.3	0.224 8914 5908	II 15.2
26	7 26 49.18 5 15.96	22 22 32.2 8 51.6	0.225 4822 5759	II 16.5
27	7 32 5.14 5 15.36	22 13 40.6 9 30.7	0.226 0581 5610	II 17.9
28	7 37 20.50 5 14.71	22 4 9.9 10 9.6	0.226 6191 5461	II 19.2
29	7 42 35.21 5 14.04	21 54 0.3 10 48.0	0.227 1652 5312	II 20.5
30	7 47 49.25 5 13.33	+21 43 12.3 11 26.0	0.227 6964 5165	II 21.8
31	7 53 2.58 5 12.58	21 31 46.3 12 3.7	0.228 2129 5017	II 23.0
Aug. 1	7 58 15.16 5 11.79	21 19 42.6 12 41.0	0.228 7146 4868	II 24.3
2	8 3 26.95 5 10.97	21 7 1.6 13 18.0	0.229 2014 4720	II 25.5
3	8 8 37.92 5 10.12	20 53 43.6 13 54.3	0.229 6734 4572	II 26.8
4	8 13 48.04 5 9.26	20 39 49.3 14 30.2	0.230 1306 4424	II 28.0
5	8 18 57.30 5 8.35	+20 25 19.1 15 5.6	0.230 5730 4276	II 29.2
6	8 24 5.65 5 7.43	20 10 13.5 15 40.5	0.231 0006 4128	II 30.4
7	8 29 13.08 5 6.48	19 54 33.0 16 14.9	0.231 4134 3979	II 31.6
8	8 34 19.56 5 5.52	19 38 18.1 16 48.8	0.231 8113 3831	II 32.7
9	8 39 25.08 5 4.53	19 21 29.3 17 22.1	0.232 1944 3682	II 33.9
10	8 44 29.61 5 3.53	19 4 7.2 17 54.7	0.232 5626 3533	II 35.0
11	8 49 33.14 5 2.51	+18 46 12.5 18 26.9	0.232 9159 3385	II 36.1
12	8 54 35.65 5 1.48	18 27 45.6 18 58.4	0.233 2544 3235	II 37.2
13	8 59 37.13 5 0.46	18 8 47.2 19 29.1	0.233 5779 3087	II 38.3
14	9 4 37.59 4 59.40	17 49 18.1 19 59.3	0.233 8866 2938	II 39.3
15	9 9 36.99 4 58.35	17 29 18.8 20 28.9	0.234 1804 2791	II 40.4
16	9 14 35.34 4 57.30	17 8 49.9 20 57.7	0.234 4595 2645	II 41.4
17	9 19 32.64 4 56.24	+16 47 52.2 21 25.9	0.234 7240 2499	II 42.4
18	9 24 28.88 4 55.18	16 26 26.3 21 53.4	0.234 9739 2355	II 43.4
19	9 29 24.06 4 54.14	16 4 32.9 22 20.2	0.235 2094 2212	II 44.3
20	9 34 18.20 4 53.08	15 42 12.7 22 46.3	0.235 4306 2071	II 45.3
21	9 39 11.28 4 52.06	15 19 26.4 23 11.8	0.235 6377 1931	II 46.2
22	9 44 3.34 4 51.04	14 56 14.6 23 36.5	0.235 8308 1793	II 47.2
23	9 48 54.38 4 50.03	+14 32 38.1 24 0.6	0.236 0101 1654	II 48.1
24	9 53 44.41 4 49.04	14 8 37.5 24 23.9	0.236 1755 1518	II 48.9
25	9 58 33.45 4 48.07	13 44 13.6 24 46.6	0.236 3273 1381	II 49.8
26	10 3 21.52 4 47.11	13 19 27.0 25 8.4	0.236 4654 1246	II 50.7
27	10 8 8.63 4 46.18	12 54 18.6 25 29.8	0.236 5900 1112	II 51.5
28	10 12 54.81 4 45.28	12 28 48.8 25 50.3	0.236 7012 977	II 52.3
29	10 17 40.09 4 44.40	+12 2 58.5 26 10.2	0.236 7989 844	II 53.1
30	10 22 24.49 4 43.53	11 36 48.3 26 29.3	0.236 8833 711	II 53.9
31	10 27 8.02 4 42.71	11 10 19.0 26 47.7	0.236 9544 577	II 54.7
Sept. 1	10 31 50.73 4 41.91	10 43 31.3 27 5.5	0.237 0121 444	II 55.5
2	10 36 32.64 4 41.13	10 16 25.8 27 22.4	0.237 0565 311	II 56.2
3	10 41 13.77	+ 9 49 3.4	0.237 0876	II 56.9

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Sept. 3	10 ^h 41 ^m 13.77 ^s 4 40.38	+ 9 49 3.4 27 38.6	0.237 0876	11 ^h 56.9
4	10 45 54.15 4 39.68	9 21 24.8 27 54.2	0.237 1055	11 57.7
5	10 50 33.83 4 39.00	8 53 30.6 28 9.1	0.237 1101	11 58.4
6	10 55 12.83 4 38.34	8 25 21.5 28 23.2	0.237 1014	11 59.1
7	10 59 51.17 4 37.73	7 56 58.3 28 36.5	0.237 0794	11 59.8
8	11 4 28.90 4 37.15	7 28 21.8 28 49.2	0.237 0441	12 0.4
9	11 9 6.05 4 36.61	+ 6 59 32.6 29 1.1	0.236 9954	12 1.1
10	11 13 42.66 4 36.09	6 30 31.5 29 12.2	0.236 9334	12 1.8
11	11 18 18.75 4 35.62	6 1 19.3 29 22.7	0.236 8581	12 2.4
12	11 22 54.37 4 35.18	5 31 56.6 29 32.3	0.236 7694	12 3.1
13	11 27 29.55 4 34.77	5 2 24.3 29 41.2	0.236 6675	12 3.7
14	11 32 4.32 4 34.39	4 32 43.1 29 49.4	0.236 5524	12 4.4
15	11 36 38.71 4 34.06	+ 4 2 53.7 29 56.8	0.236 4241	12 5.0
16	11 41 12.77 4 33.77	3 32 56.9 30 3.4	0.236 2828	12 5.6
17	11 45 46.54 4 33.51	3 2 53.5 30 9.4	0.236 1284	12 6.2
18	11 50 20.05 4 33.30	2 32 44.1 30 14.6	0.235 9612	12 6.8
19	11 54 53.35 4 33.12	2 2 29.5 30 19.0	0.235 7813	12 7.5
20	11 59 26.47 4 32.99	1 32 10.5 30 22.7	0.235 5888	12 8.1
21	12 3 59.46 4 32.90	+ 1 1 47.8 30 25.7	0.235 3838	12 8.7
22	12 8 32.36 4 32.85	0 31 22.1 30 28.0	0.235 1665	12 9.3
23	12 13 5.21 4 32.84	+ 0 0 54.1 30 29.5	0.234 9371	12 9.9
24	12 17 38.05 4 32.87	— 0 29 35.4 30 30.4	0.234 6955	12 10.5
25	12 22 10.92 4 32.96	1 0 5.8 30 30.5	0.234 4418	12 11.1
26	12 26 43.88 4 33.09	1 30 36.3 30 29.8	0.234 1761	12 11.7
27	12 31 16.97 4 33.26	— 2 1 6.1 30 28.4	0.233 8985	12 12.3
28	12 35 50.23 4 33.48	2 31 34.5 30 26.4	0.233 6090	12 12.9
29	12 40 23.71 4 33.73	3 2 0.9 30 23.5	0.233 3076	12 13.6
30	12 44 57.44 4 34.03	3 32 24.4 30 20.0	0.232 9944	12 14.2
Okt. 1	12 49 31.47 4 34.37	4 2 44.4 30 15.6	0.232 6695	12 14.8
2	12 54 5.84 4 34.77	4 33 0.0 30 10.6	0.232 3328	12 15.4
3	12 58 40.61 4 35.19	— 5 3 10.6 30 4.9	0.231 9843	12 16.1
4	13 3 15.80 4 35.66	5 33 15.5 29 58.3	0.231 6241	12 16.7
5	13 7 51.46 4 36.17	6 3 13.8 29 51.0	0.231 2521	12 17.4
6	13 12 27.63 4 36.74	6 33 4.8 29 43.0	0.230 8683	12 18.0
7	13 17 4.37 4 37.33	7 2 47.8 29 34.1	0.230 4727	12 18.7
8	13 21 41.70 4 37.97	7 32 21.9 29 24.5	0.230 0652	12 19.4
9	13 26 19.67 4 38.64	— 8 1 46.4 29 14.3	0.229 6458	12 20.1
10	13 30 58.31 4 39.35	8 31 0.7 29 2.9	0.229 2144	12 20.8
11	13 35 37.66 4 40.09	9 0 3.6 28 50.9	0.228 7711	12 21.5
12	13 40 17.75 4 40.87	9 28 54.5 28 38.2	0.228 3158	12 22.2
13	13 44 58.62 4 41.68	9 57 32.7 28 24.6	0.227 8485	12 23.0
14	13 49 40.30	— 10 25 57.3	0.227 3693	12 23.8

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Okt. 14	13 ^h 49 ^m 40.30 ^s 4 42.52	—10° 25' 57.3" 28 10.3	0.227 3693	12 ^h 23.8
15	13 54 22.82 4 43.39	10 54 7.6 27 55.1	0.226 8782	12 24.5
16	13 59 6.21 4 44.30	11 22 2.7 27 39.1	0.226 3753	12 25.3
17	14 3 50.51 4 45.24	11 49 41.8 27 22.3	0.225 8606	12 26.1
18	14 8 35.75 4 46.20	12 17 4.1 27 4.6	0.225 3343	12 27.0
19	14 13 21.95 4 47.21	12 44 8.7 26 46.3	0.224 7966	12 27.8
20	14 18 9.16 4 48.23	—13 10 55.0 26 27.2	0.224 2474	12 28.6
21	14 22 57.39 4 49.28	13 37 22.2 26 7.3	0.223 6868	12 29.5
22	14 27 46.67 4 50.36	14 3 29.5 25 46.5	0.223 1152	12 30.4
23	14 32 37.03 4 51.47	14 29 16.0 25 24.9	0.222 5324	12 31.3
24	14 37 28.50 4 52.60	14 54 40.9 25 2.7	0.221 9385	12 32.2
25	14 42 21.10 4 53.74	15 19 43.6 24 39.5	0.221 3336	12 33.2
26	14 47 14.84 4 54.91	—15 44 23.1 24 15.6	0.220 7177	12 34.1
27	14 52 9.75 4 56.10	16 8 38.7 23 50.9	0.220 0908	12 35.1
28	14 57 5.85 4 57.30	16 32 29.6 23 25.5	0.219 4529	12 36.1
29	15 2 3.15 4 58.51	16 55 55.1 22 59.2	0.218 8040	12 37.2
30	15 7 1.66 4 59.75	17 18 54.3 22 32.1	0.218 1443	12 38.2
31	15 12 1.41 5 0.99	17 41 26.4 22 4.3	0.217 4736	12 39.3
Nov. 1	15 17 2.40 5 2.24	—18 3 30.7 21 35.7	0.216 7920	12 40.3
2	15 22 4.64 5 3.49	18 25 6.4 21 6.2	0.216 0995	12 41.4
3	15 27 8.13 5 4.74	18 46 12.6 20 36.2	0.215 3960	12 42.6
4	15 32 12.87 5 6.00	19 6 48.8 20 5.2	0.214 6814	12 43.7
5	15 37 18.87 5 7.25	19 26 54.0 19 33.5	0.213 9558	12 44.9
6	15 42 26.12 5 8.49	19 46 27.5 19 1.0	0.213 2189	12 46.1
7	15 47 34.61 5 9.72	—20 5 28.5 18 27.8	0.212 4707	12 47.3
8	15 52 44.33 5 10.95	20 23 56.3 17 53.9	0.211 7111	12 48.5
9	15 57 55.28 5 12.16	20 41 50.2 17 19.2	0.210 9400	12 49.8
10	16 3 7.44 5 13.33	20 59 9.4 16 43.9	0.210 1573	12 51.0
11	16 8 20.77 5 14.49	21 15 53.3 16 7.7	0.209 3631	12 52.3
12	16 13 35.26 5 15.62	21 32 1.0 15 30.9	0.208 5572	12 53.7
13	16 18 50.88 5 16.71	—21 47 31.9 14 53.6	0.207 7397	12 55.0
14	16 24 7.59 5 17.78	22 2 25.5 14 15.4	0.206 9106	12 56.3
15	16 29 25.37 5 18.81	22 16 40.9 13 36.7	0.206 0700	12 57.7
16	16 34 44.18 5 19.82	22 30 17.6 12 57.5	0.205 2179	12 59.1
17	16 40 4.00 5 20.77	22 43 15.1 12 17.6	0.204 3542	13 0.5
18	16 45 24.77 5 21.69	22 55 32.7 11 37.1	0.203 4791	13 1.9
19	16 50 46.46 5 22.56	—23 7 9.8 10 56.2	0.202 5926	13 3.3
20	16 56 9.02 5 23.39	23 18 6.0 10 14.8	0.201 6948	13 4.8
21	17 1 32.41 5 24.17	23 28 20.8 9 32.9	0.200 7856	13 6.2
22	17 6 56.58 5 24.89	23 37 53.7 8 50.6	0.199 8651	13 7.7
23	17 12 21.47 5 25.58	23 46 44.3 8 7.8	0.198 9333	13 9.1
24	17 17 47.05 5 26.24	—23 54 52.1 7 15.4	0.197 9902	13 10.6

Tag	O ^h Welt-Zeit			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Nov. 24	17 ^h 17 ^m 47.05 ^s 26.19	—23° 54' 52.1"	0.197 9902	13 ^h 10.6
25	17 23 13.24 26.77	24 2 16.8	0.197 0358	13 12.2
26	17 28 40.01 27.27	24 8 58.0	0.196 0702	13 13.7
27	17 34 7.28 27.73	24 14 55.4	0.195 0934	13 15.2
28	17 39 35.01 28.11	24 20 8.7	0.194 1052	13 16.7
29	17 45 3.12 28.45	24 24 37.6	0.193 1057	13 18.2
30	17 50 31.57 28.71	—24 28 21.8	0.192 0948	13 19.8
Dez. 1	17 56 0.28 28.92	24 31 21.2	0.191 0725	13 21.3
2	18 1 29.20 29.06	24 33 35.7	0.190 0385	13 22.9
3	18 6 58.26 29.13	24 35 5.1	0.188 9928	13 24.4
4	18 12 27.39 29.13	24 35 49.3	0.187 9353	13 25.9
5	18 17 56.52 29.07	24 35 48.1	0.186 8658	13 27.5
6	18 23 25.59 28.94	—24 35 1.6	0.185 7842	13 29.0
7	18 28 54.53 28.74	24 33 29.8	0.184 6903	13 30.6
8	18 34 23.27 28.46	24 31 12.8	0.183 5840	13 32.1
9	18 39 51.73 28.12	24 28 10.6	0.182 4651	13 33.6
10	18 45 19.85 27.71	24 24 23.4	0.181 3335	13 35.2
11	18 50 47.56 27.23	24 19 51.2	0.180 1891	13 36.7
12	18 56 14.79 26.69	—24 14 34.3	0.179 0319	13 38.2
13	19 1 41.48 26.07	24 8 33.0	0.177 8617	13 39.7
14	19 7 7.55 25.40	24 1 47.5	0.176 6784	13 41.2
15	19 12 32.95 24.66	23 54 18.1	0.175 4821	13 42.6
16	19 17 57.61 23.87	23 46 5.1	0.174 2728	13 44.1
17	19 23 21.48 23.02	23 37 8.9	0.173 0503	13 45.6
18	19 28 44.50 22.11	—23 27 30.0	0.171 8147	13 47.0
19	19 34 6.61 21.15	23 17 8.7	0.170 5660	13 48.4
20	19 39 27.76 20.15	23 6 5.3	0.169 3040	13 49.8
21	19 44 47.91 19.09	22 54 20.6	0.168 0287	13 51.2
22	19 50 7.00 18.00	22 41 54.9	0.166 7402	13 52.6
23	19 55 25.00 16.87	22 28 48.8	0.165 4383	13 53.9
24	20 0 41.87 15.70	—22 15 2.9	0.164 1230	13 55.2
25	20 5 57.57 14.50	22 0 37.7	0.162 7943	13 56.5
26	20 11 12.07 13.26	21 45 33.8	0.161 4521	13 57.8
27	20 16 25.33 12.00	21 29 51.8	0.160 0964	13 59.1
28	20 21 37.33 10.72	21 13 32.4	0.158 7270	14 0.3
29	20 26 48.05 9.41	20 56 36.1	0.157 3439	14 1.6
30	20 31 57.46 8.09	—20 39 3.6	0.155 9470	14 2.8
31	20 37 5.55 6.74	20 20 55.6	0.154 5359	14 3.9
32	20 42 12.29	—20 2 12.8	0.153 1105	14 5.1

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Jan. 0	9 ^h 17 ^m 37.58 ^s ° 39.49	+19° 41' 16.1" 5 32.3	9.863 7860 2 9305	2 ^h 42.3 ^m
1	9 16 58.09 ° 42.82	19 46 48.4 5 44.6	9.860 8555 2 8599	2 37.7
2	9 16 15.27 ° 46.13	19 52 33.0 5 56.4	9.857 9956 2 7854	2 33.1
3	9 15 29.14 ° 49.42	19 58 29.4 6 7.8	9.855 2102 2 7068	2 28.4
4	9 14 39.72 ° 52.68	20 4 37.2 6 18.6	9.852 5034 2 6242	2 23.6
5	9 13 47.04 ° 55.91	20 10 55.8 6 28.9	9.849 8792 2 5375	2 18.8
6	9 12 51.13 ° 59.09	+20 17 24.7 6 38.5	9.847 3417 2 4466	2 13.9
7	9 11 52.04 1 2.24	20 24 3.2 6 47.6	9.844 8951 2 3514	2 9.0
8	9 10 49.80 1 5.32	20 30 50.8 6 55.8	9.842 5437 2 2520	2 4.1
9	9 9 44.48 1 8.34	20 37 46.6 7 3.4	9.840 2917 2 1481	1 59.1
10	9 8 36.14 1 11.28	20 44 50.0 7 10.2	9.838 1436 2 0399	1 54.0
11	9 7 24.86 1 14.14	20 52 0.2 7 16.0	9.836 1037 1 9275	1 48.9
12	9 6 10.72 1 16.90	+20 59 16.2 7 20.9	9.834 1762 1 8107	1 43.7
13	9 4 53.82 1 19.55	21 6 37.1 7 25.1	9.832 3655 1 6902	1 38.5
14	9 3 34.27 1 22.08	21 14 2.2 7 28.2	9.830 6753 1 5658	1 33.2
15	9 2 12.19 1 24.48	21 21 30.4 7 30.4	9.829 1095 1 4376	1 27.9
16	9 0 47.71 1 26.75	21 29 0.8 7 31.3	9.827 6719 1 3057	1 22.6
17	8 59 20.96 1 28.85	21 36 32.1 7 31.5	9.826 3662 1 1711	1 17.2
18	8 57 52.11 1 30.80	+21 44 3.6 7 30.6	9.825 1951 1 0331	1 11.8
19	8 56 21.31 1 32.58	21 51 34.2 7 28.4	9.824 1620 8924	1 6.4
20	8 54 48.73 1 34.19	21 59 2.6 7 25.5	9.823 2696 7499	1 0.9
21	8 53 14.54 1 35.61	22 6 28.1 7 21.3	9.822 5197 6054	0 55.4
22	8 51 38.93 1 36.86	22 13 49.4 7 16.2	9.821 9143 4592	0 49.9
23	8 50 2.07 1 37.90	22 21 5.6 7 10.1	9.821 4551 3119	0 44.4
24	8 48 24.17 1 38.74	+22 28 15.7 7 3.1	9.821 1432 1635	0 38.8
25	8 46 45.43 1 39.40	22 35 18.8 6 55.1	9.820 9797 147	0 33.3
26	8 45 6.03 1 39.85	22 42 13.9 6 46.1	9.820 9650 1348	0 27.7
27	8 43 26.18 1 40.10	22 49 0.0 6 36.5	9.821 0998 2838	0 22.1
28	8 41 46.08 1 40.13	22 55 36.5 6 26.0	9.821 3836 4322	0 16.5
29	8 40 5.95 1 39.98	23 2 2.5 6 14.9	9.821 8158 5797	0 10.9
30	8 38 25.97 1 39.63	+23 8 17.4 6 3.1	9.822 3955 7260	(0 5.4) (23 59.8)
Febr. 31	8 36 46.34 1 39.09	23 14 20.5 5 50.6	9.823 1215 8708	23 54.2
1	8 35 7.25 1 38.35	23 20 11.1 5 37.7	9.823 9923 1 0139	23 48.6
2	8 33 28.90 1 37.43	23 25 48.8 5 24.3	9.825 0062 1 1551	23 43.1
3	8 31 51.47 1 36.34	23 31 13.1 5 10.5	9.826 1613 1 2940	23 37.6
4	8 30 15.13 1 35.07	23 36 23.6 4 56.3	9.827 4553 1 4306	23 32.1
5	8 28 40.06 1 33.62	+23 41 19.9 4 47.9	9.828 8859 1 5648	23 26.6
6	8 27 6.44 1 32.00	23 46 1.8 4 27.2	9.830 4507 1 6960	23 21.1
7	8 25 34.44 1 30.23	23 50 29.0 4 12.3	9.832 1467 1 8246	23 15.7
8	8 24 4.21 1 28.29	23 54 41.3 3 57.3	9.833 9713 1 9499	23 10.3
9	8 22 35.92 1 26.21	23 58 38.6 3 42.1	9.835 9212 2 0720	23 4.9
10	8 21 9.71	+24 2 20.7	9.837 9932	22 59.6

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Febr. 10	8 ^h 21 ^m 9.71 ^s I 23.98	+24° 2' 20.7" 3 26.8	9.837 9932	22 ^h 59.6 ^m
11	8 19 45.73 I 21.59	24 5 47.5 3 11.6	9.840 1838	22 54.3
12	8 18 24.14 I 19.08	24 8 59.1 2 56.4	9.842 4894	22 49.1
13	8 17 5.06 I 16.44	24 11 55.5 2 41.1	9.844 9064	22 43.9
14	8 15 48.62 I 13.69	24 14 36.6 2 26.1	9.847 4305	22 38.7
15	8 14 34.93 I 10.83	24 17 2.7 2 11.1	9.850 0576	22 33.6
16	8 13 24.10 I 7.89	+24 19 13.8 I 56.4	9.852 7835	22 28.6
17	8 12 16.21 I 4.83	24 21 10.2 I 41.9	9.855 6036	22 23.6
18	8 11 11.38 I 1.71	24 22 52.1 I 27.4	9.858 5139	22 18.6
19	8 10 9.67 O 58.53	24 24 19.5 I 13.2	9.861 5099	22 13.7
20	8 9 11.14 O 55.27	24 25 32.7 O 59.3	9.864 5871	22 8.9
21	8 8 15.87 O 51.97	24 26 32.0 O 45.8	9.867 7412	22 4.1
22	8 7 23.90 O 48.64	+24 27 17.8 O 32.5	9.870 9677	21 59.3
23	8 6 35.26 O 45.28	24 27 50.3 O 19.4	9.874 2620	21 54.6
24	8 5 49.98 O 41.89	24 28 9.7 O 6.8	9.877 6201	21 50.0
25	8 5 8.09 O 38.49	24 28 16.5 O 5.6	9.881 0375	21 45.4
26	8 4 29.60 O 35.07	24 28 10.9 O 17.7	9.884 5102	21 40.9
27	8 3 54.53 O 31.67	24 27 53.2 O 29.4	9.888 0340	21 36.4
28	8 3 22.86 O 28.28	+24 27 23.8 O 40.8	9.891 6049	21 32.0
März 1	8 2 54.58 O 24.90	24 26 43.0 O 51.9	9.895 2193	21 27.7
2	8 2 29.68 O 21.56	24 25 51.1 I 2.8	9.898 8736	21 23.4
3	8 2 8.12 O 18.22	24 24 48.3 I 13.2	9.902 5643	21 19.1
4	8 1 49.90 O 14.92	24 23 35.1 I 23.3	9.906 2879	21 14.9
5	8 1 34.98 O 11.66	24 22 11.8 I 33.2	9.910 0414	21 10.8
6	8 1 23.32 O 8.43	+24 20 38.6 I 42.8	9.913 8218	21 6.7
7	8 1 14.89 O 5.24	24 18 55.8 I 52.1	9.917 6265	21 2.7
8	8 1 9.65 O 2.08	24 17 3.7 2 1.3	9.921 4526	20 58.7
9	8 1 7.57 O 1.05	24 15 2.4 2 10.2	9.925 2978	20 54.8
10	8 1 8.62 O 4.13	24 12 52.2 2 18.9	9.929 1596	20 50.9
11	8 1 12.75 O 7.18	24 10 33.3 2 27.5	9.933 0354	20 47.1
12	8 1 19.93 O 10.19	+24 8 5.8 2 35.8	9.936 9231	20 43.4
13	8 1 30.12 O 13.15	24 5 30.0 2 44.0	9.940 8201	20 39.6
14	8 1 43.27 O 16.08	24 2 46.0 2 52.0	9.944 7248	20 36.0
15	8 1 59.35 O 18.96	23 59 54.0 2 59.9	9.948 6345	20 32.4
16	8 2 18.31 O 21.78	23 56 54.1 3 7.7	9.952 5473	20 28.8
17	8 2 40.09 O 24.57	23 53 46.4 3 15.3	9.956 4613	20 25.2
18	8 3 4.66 O 27.30	+23 50 31.1 3 22.9	9.960 3745	20 21.7
19	8 3 31.96 O 29.97	23 47 8.2 3 30.3	9.964 2852	20 18.3
20	8 4 1.93 O 32.60	23 43 37.9 3 37.7	9.968 1915	20 14.9
21	8 4 34.53 O 35.17	23 40 0.2 3 44.9	9.972 0919	20 11.6
22	8 5 9.70 O 37.70	23 36 15.3 3 52.0	9.975 9846	20 8.3
23	8 5 47.40	+23 32 23.3	9.979 8683	20 5.0

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
März 23	8 ^h 5 ^m 47.40 ^s [°] 40.17	+23° 32' 23.3" ['] 59.1	9.979 8683	20 ^h 5.0 ^m
24	8 6 27.57 [°] 42.58	23 28 24.2 ['] 6.1	9.983 7416	20 1.7
25	8 7 10.15 [°] 44.94	23 24 18.1 ['] 13.0	9.987 6030	19 58.5
26	8 7 55.09 [°] 47.23	23 20 5.1 ['] 19.9	9.991 4514	19 55.4
27	8 8 42.32 [°] 49.48	23 15 45.2 ['] 26.7	9.995 2854	19 52.3
28	8 9 31.80 [°] 51.66	23 11 18.5 ['] 33.4	9.999 1040	19 49.2
29	8 10 23.46 [°] 53.80	+23 6 45.1 ['] 40.1	0.002 9060	19 46.2
30	8 11 17.26 [°] 55.85	23 2 5.0 ['] 46.6	0.006 6908	19 43.2
31	8 12 13.11 [°] 57.87	22 57 18.4 ['] 53.2	0.010 4576	19 40.2
April 1	8 13 10.98 [°] 59.84	22 52 25.2 ['] 59.7	0.014 2058	19 37.2
2	8 14 10.82 ['] 1.74	22 47 25.5 ['] 6.2	0.017 9347	19 34.3
3	8 15 12.56 ['] 3.60	22 42 19.3 ['] 12.6	0.021 6439	19 31.4
4	8 16 16.16 ['] 5.40	+22 37 6.7 ['] 19.1	0.025 3328	19 28.6
5	8 17 21.56 ['] 7.17	22 31 47.6 ['] 25.4	0.029 0010	19 25.8
6	8 18 28.73 ['] 8.90	22 26 22.2 ['] 31.8	0.032 6481	19 23.0
7	8 19 37.63 ['] 10.58	22 20 50.4 ['] 38.2	0.036 2738	19 20.2
8	8 20 48.21 ['] 12.22	22 15 12.2 ['] 44.6	0.039 8778	19 17.4
9	8 22 0.43 ['] 13.83	22 9 27.6 ['] 51.0	0.043 4599	19 14.7
10	8 23 14.26 ['] 15.39	+22 3 36.6 ['] 57.4	0.047 0197	19 12.0
11	8 24 29.65 ['] 16.92	21 57 39.2 ['] 6.3	0.050 5569	19 9.4
12	8 25 46.57 ['] 18.41	21 51 35.4 ['] 10.3	0.054 0711	19 6.8
13	8 27 4.98 ['] 19.88	21 45 25.1 ['] 16.7	0.057 5620	19 4.2
14	8 28 24.86 ['] 21.29	21 39 8.4 ['] 23.2	0.061 0292	19 1.6
15	8 29 46.15 ['] 22.68	21 32 45.2 ['] 29.7	0.064 4726	18 59.0
16	8 31 8.83 ['] 24.02	+21 26 15.5 ['] 36.2	0.067 8918	18 56.4
17	8 32 32.85 ['] 25.33	21 19 39.3 ['] 42.6	0.071 2865	18 53.9
18	8 33 58.18 ['] 26.61	21 12 56.7 ['] 49.2	0.074 6566	18 51.4
19	8 35 24.79 ['] 27.86	21 6 7.5 ['] 55.8	0.078 0017	18 48.9
20	8 36 52.65 ['] 29.07	20 59 11.7 ['] 2.2	0.081 3218	18 46.5
21	8 38 21.72 ['] 30.24	20 52 9.5 ['] 8.6	0.084 6165	18 44.0
22	8 39 51.96 ['] 31.38	+20 45 0.9 ['] 15.2	0.087 8856	18 41.6
23	8 41 23.34 ['] 32.48	20 37 45.7 ['] 21.7	0.091 1289	18 39.2
24	8 42 55.82 ['] 33.56	20 30 24.0 ['] 28.2	0.094 3464	18 36.8
25	8 44 29.38 ['] 34.61	20 22 55.8 ['] 34.7	0.097 5380	18 34.5
26	8 46 3.99 ['] 35.60	20 15 21.1 ['] 41.2	0.100 7036	18 32.1
27	8 47 39.59 ['] 36.58	20 7 39.9 ['] 47.6	0.103 8433	18 29.8
28	8 49 16.17 ['] 37.53	+19 59 52.3 ['] 54.0	0.106 9570	18 27.5
29	8 50 53.70 ['] 38.43	19 51 58.3 ['] 0.4	0.110 0449	18 25.2
30	8 52 32.13 ['] 39.31	19 43 57.9 ['] 6.7	0.113 1070	18 22.9
Mai 1	8 54 11.44 ['] 40.17	19 35 51.2 ['] 13.1	0.116 1434	18 20.6
2	8 55 51.61 ['] 41.00	19 27 38.1 ['] 19.4	0.119 1545	18 18.3
3	8 57 32.61	+19 19 18.7	0.122 1403	18 16.1

Tag	Oh Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Mai 3	8 ^h 57 ^m 32.61 ^s 1 41.81	+19° 19' 18.7" 8 25.8	0.122 1403 2 9608	18 ^h 16.1 ^m
4	8 59 14.42 1 42.61	19 10 52.9 8 32.0	0.125 1011 2 9360	18 13.9
5	9 0 57.03 1 43.37	19 2 20.9 8 38.4	0.128 0371 2 9113	18 11.7
6	9 2 40.40 1 44.11	18 53 42.5 8 44.8	0.130 9484 2 8868	18 9.5
7	9 4 24.51 1 44.84	18 44 57.7 8 51.1	0.133 8352 2 8624	18 7.3
8	9 6 9.35 1 45.56	18 36 6.6 8 57.4	0.136 6976 2 8381	18 5.1
9	9 7 54.91 1 46.26	+18 27 9.2 9 3.7	0.139 5357 2 8140	18 2.9
10	9 9 41.17 1 46.93	18 18 5.5 9 10.1	0.142 3497 2 7898	18 0.7
11	9 11 28.10 1 47.59	18 8 55.4 9 16.4	0.145 1395 2 7658	17 58.6
12	9 13 15.69 1 48.23	17 59 39.0 9 22.8	0.147 9053 2 7419	17 56.5
13	9 15 3.92 1 48.86	17 50 16.2 9 29.1	0.150 6472 2 7180	17 54.3
14	9 16 52.78 1 49.48	17 40 47.1 9 35.4	0.153 3652 2 6941	17 52.2
15	9 18 42.26 1 50.08	+17 31 11.7 9 41.8	0.156 0593 2 6703	17 50.1
16	9 20 32.34 1 50.66	17 21 29.9 9 48.0	0.158 7296 2 6466	17 48.0
17	9 22 23.00 1 51.23	17 11 41.9 9 54.2	0.161 3762 2 6229	17 45.9
18	9 24 14.23 1 51.77	17 1 47.7 10 0.5	0.163 9991 2 5993	17 43.8
19	9 26 6.00 1 52.31	16 51 47.2 10 6.7	0.166 5984 2 5755	17 41.7
20	9 27 58.31 1 52.83	16 41 40.5 10 12.9	0.169 1739 2 5519	17 39.7
21	9 29 51.14 1 53.33	+16 31 27.6 10 19.0	0.171 7258 2 5285	17 37.6
22	9 31 44.47 1 53.81	16 21 8.6 10 25.1	0.174 2543 2 5050	17 35.6
23	9 33 38.28 1 54.28	16 10 43.5 10 31.2	0.176 7593 2 4818	17 33.6
24	9 35 32.56 1 54.73	16 0 12.3 10 37.3	0.179 2411 2 4586	17 31.5
25	9 37 27.29 1 55.18	15 49 35.0 10 43.2	0.181 6997 2 4356	17 29.5
26	9 39 22.47 1 55.61	15 38 51.8 10 49.1	0.184 1353 2 4127	17 27.5
27	9 41 18.08 1 56.01	+15 28 2.7 10 54.9	0.186 5480 2 3902	17 25.5
28	9 43 14.09 1 56.41	15 17 7.8 11 0.8	0.188 9382 2 3678	17 23.5
29	9 45 10.50 1 56.79	15 6 7.0 11 6.5	0.191 3060 2 3456	17 21.5
30	9 47 7.29 1 57.17	14 55 0.5 11 12.2	0.193 6516 2 3238	17 19.5
31	9 49 4.46 1 57.53	14 43 48.3 11 17.8	0.195 9754 2 3021	17 17.5
Juni 1	9 51 1.99 1 57.89	14 32 30.5 11 23.5	0.198 2775 2 2808	17 15.5
2	9 52 59.88 1 58.24	+14 21 7.0 11 29.2	0.200 5583 2 2597	17 13.6
3	9 54 58.12 1 58.58	14 9 37.8 11 34.7	0.202 8180 2 2387	17 11.6
4	9 56 56.70 1 58.92	13 58 3.1 11 40.2	0.205 0567 2 2179	17 9.6
5	9 58 55.62 1 59.26	13 46 22.9 11 45.8	0.207 2746 2 1974	17 7.7
6	10 0 54.88 1 59.58	13 34 37.1 11 51.2	0.209 4720 2 1769	17 5.8
7	10 2 54.46 1 59.90	13 22 45.9 11 56.7	0.211 6489 2 1567	17 3.8
8	10 4 54.36 2 0.22	+13 10 49.2 12 2.1	0.213 8056 2 1365	17 1.9
9	10 6 54.58 2 0.53	12 58 47.1 12 7.5	0.215 9421 2 1164	16 59.9
10	10 8 55.11 2 0.84	12 46 39.6 12 12.8	0.218 0585 2 0966	16 58.0
11	10 10 55.95 2 1.14	12 34 26.8 12 18.1	0.220 1551 2 0767	16 56.1
12	10 12 57.09 2 1.44	12 22 8.7 12 23.3	0.222 2318 2 0569	16 54.2
13	10 14 58.53	+12 9 45.4	0.224 2887	16 52.2

Tag	O ^b Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juni 13	10 ^h 14 ^m 58.53 ^s 2 1.74	+ 12° 9' 45.4" 12 28.6	0.224 2887 2 0373	16 ^h 52.2 ^m
14	10 17 0.27 2 2.03	11 57 16.8 12 33.9	0.226 3260 2 0175	16 50.3
15	10 19 2.30 2 2.31	11 44 42.9 12 38.9	0.228 3435 1 9980	16 48.4
16	10 21 4.61 2 2.60	11 32 4.0 12 44.0	0.230 3415 1 9785	16 46.5
17	10 23 7.21 2 2.87	11 19 20.0 12 49.0	0.232 3200 1 9591	16 44.7
18	10 25 10.08 2 3.13	11 6 31.0 12 54.0	0.234 2791 1 9397	16 42.8
19	10 27 13.21 2 3.40	+ 10 53 37.0 12 58.9	0.236 2188 1 9204	16 40.9
20	10 29 16.61 2 3.66	10 40 38.1 13 3.7	0.238 1392 1 9012	16 39.0
21	10 31 20.27 2 3.90	10 27 34.4 13 8.4	0.240 0404 1 8822	16 37.1
22	10 33 24.17 2 4.15	10 14 26.0 13 13.1	0.241 9226 1 8633	16 35.3
23	10 35 28.32 2 4.39	10 1 12.9 13 17.6	0.243 7859 1 8445	16 33.4
24	10 37 32.71 2 4.63	9 47 55.3 13 22.1	0.245 6304 1 8259	16 31.5
25	10 39 37.34 2 4.86	+ 9 34 33.2 13 26.6	0.247 4563 1 8076	16 29.6
26	10 41 42.20 2 5.08	9 21 6.6 13 30.9	0.249 2639 1 7895	16 27.8
27	10 43 47.28 2 5.31	9 7 35.7 13 35.1	0.251 0534 1 7715	16 25.9
28	10 45 52.59 2 5.53	8 54 0.6 13 39.4	0.252 8249 1 7538	16 24.1
29	10 47 58.12 2 5.76	8 40 21.2 13 43.6	0.254 5787 1 7363	16 22.3
30	10 50 3.88 2 5.98	8 26 37.6 13 47.6	0.256 3150 1 7190	16 20.4
Juli 1	10 52 9.86 2 6.20	+ 8 12 50.0 13 51.7	0.258 0340 1 7019	16 18.6
2	10 54 16.06 2 6.43	7 58 58.3 13 55.7	0.259 7359 1 6850	16 16.8
3	10 56 22.49 2 6.66	7 45 2.6 13 59.6	0.261 4209 1 6682	16 14.9
4	10 58 29.15 2 6.88	7 31 3.0 14 3.4	0.263 0891 1 6516	16 13.1
5	11 0 36.03 2 7.11	7 16 59.6 14 7.3	0.264 7407 1 6351	16 11.3
6	11 2 43.14 2 7.34	7 2 52.3 14 11.1	0.266 3758 1 6187	16 9.4
7	11 4 50.48 2 7.58	+ 6 48 41.2 14 14.8	0.267 9945 1 6024	16 7.6
8	11 6 58.06 2 7.82	6 34 26.4 14 18.4	0.269 5969 1 5862	16 5.8
9	11 9 5.88 2 8.05	6 20 8.0 14 22.1	0.271 1831 1 5700	16 4.0
10	11 11 13.93 2 8.28	6 5 45.9 14 25.6	0.272 7531 1 5540	16 2.2
11	11 13 22.21 2 8.52	5 51 20.3 14 29.1	0.274 3071 1 5380	16 0.4
12	11 15 30.73 2 8.77	5 36 51.2 14 32.4	0.275 8451 1 5222	15 58.6
13	11 17 39.50 2 9.01	+ 5 22 18.8 14 35.8	0.277 3673 1 5063	15 56.8
14	11 19 48.51 2 9.26	5 7 43.0 14 39.1	0.278 8736 1 4904	15 55.0
15	11 21 57.77 2 9.50	4 53 3.9 14 42.3	0.280 3640 1 4747	15 53.2
16	11 24 7.27 2 9.75	4 38 21.6 14 45.4	0.281 8387 1 4589	15 51.5
17	11 26 17.02 2 10.00	4 23 36.2 14 48.4	0.283 2976 1 4431	15 49.7
18	11 28 27.02 2 10.24	4 8 47.8 14 51.3	0.284 7407 1 4275	15 47.9
19	11 30 37.26 2 10.49	+ 3 53 56.5 14 54.1	0.286 1682 1 4120	15 46.2
20	11 32 47.75 2 10.74	3 39 2.4 14 56.9	0.287 5802 1 3966	15 44.4
21	11 34 58.49 2 10.98	3 24 5.5 14 59.4	0.288 9768 1 3812	15 42.6
22	11 37 9.47 2 11.23	3 9 6.1 15 2.0	0.290 3580 1 3660	15 40.9
23	11 39 20.70 2 11.47	2 54 4.1 15 4.5	0.291 7240 1 3509	15 39.1
24	11 41 32.17 2 11.71	+ 2 38 59.6 15 7.0	0.293 0749 1 3359	15 37.4

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juli 24	II 41 ^h 32.17 ^m 2 11.72 ^s	+2° 38' 59.6" 15 6.8	0.293 0749 I 3363	15 37.4
25	II 43 43.89 2 11.98	2 23 52.8 15 9.1	0.294 4112 I 3216	15 35.6
26	II 45 55.87 2 12.23	2 8 43.7 15 11.1	0.295 7328 I 3071	15 33.9
27	II 48 8.10 2 12.49	I 53 32.6 15 13.3	0.297 0399 I 2928	15 32.2
28	II 50 20.59 2 12.75	I 38 19.3 15 15.3	0.298 3327 I 2786	15 30.4
29	II 52 33.34 2 13.01	I 23 4.0 15 17.2	0.299 6113 I 2646	15 28.7
30	II 54 46.35 2 13.29	+I 7 46.8 15 19.1	0.300 8759 I 2507	15 27.0
31	II 56 59.64 2 13.57	0 52 27.7 15 20.8	0.302 1266 I 2371	15 25.3
Aug. 1	II 59 13.21 2 13.84	0 37 6.9 15 22.5	0.303 3637 I 2236	15 23.6
2	I 2 1 27.05 2 14.12	0 21 44.4 15 24.2	0.304 5873 I 2101	15 21.9
3	I 2 3 41.17 2 14.41	+0 6 20.2 15 25.7	0.305 7974 I 1968	15 20.2
4	I 2 5 55.58 2 14.72	—0 9 5.5 15 27.1	0.306 9942 I 1835	15 18.5
5	I 2 8 10.30 2 15.02	—0 24 32.6 15 28.5	0.308 1777 I 1703	15 16.8
6	I 2 10 25.32 2 15.34	0 40 1.1 15 29.9	0.309 3480 I 1572	15 15.1
7	I 2 12 40.66 2 15.64	0 55 31.0 15 31.1	0.310 5052 I 1441	15 13.4
8	I 2 14 56.30 2 15.96	I 11 2.1 15 32.2	0.311 6493 I 1311	15 11.7
9	I 2 17 12.26 2 16.30	I 26 34.3 15 33.3	0.312 7804 I 1182	15 10.0
10	I 2 19 28.56 2 16.62	I 42 7.6 15 34.2	0.313 8986 I 1052	15 8.4
11	I 2 21 45.18 2 16.95	—I 57 41.8 15 35.1	0.315 0038 I 0923	15 6.7
12	I 2 24 2.13 2 17.30	2 13 16.9 15 35.9	0.316 0961 I 0794	15 5.1
13	I 2 26 19.43 2 17.65	2 28 52.8 15 36.6	0.317 1755 I 0666	15 3.4
14	I 2 28 37.08 2 17.99	2 44 29.4 15 37.1	0.318 2421 I 0536	15 1.8
15	I 2 30 55.07 2 18.34	3 0 6.5 15 37.6	0.319 2957 I 0409	15 0.1
16	I 2 33 13.41 2 18.70	3 15 44.1 15 37.8	0.320 3366 I 0280	14 58.5
17	I 2 35 32.11 2 19.06	—3 31 21.9 15 38.0	0.321 3646 I 0153	14 56.9
18	I 2 37 51.17 2 19.42	3 46 59.9 15 38.1	0.322 3799 I 0028	14 55.3
19	I 2 40 10.59 2 19.77	4 2 38.0 15 38.1	0.323 3827 9902	14 53.7
20	I 2 42 30.36 2 20.14	4 18 16.1 15 37.9	0.324 3729 9779	14 52.1
21	I 2 44 50.50 2 20.52	4 33 54.0 15 37.5	0.325 3508 9657	14 50.5
22	I 2 47 11.02 2 20.89	4 49 31.5 15 37.1	0.326 3165 9536	14 48.9
23	I 2 49 31.91 2 21.28	—5 5 8.6 15 36.7	0.327 2701 9418	14 47.3
24	I 2 51 53.19 2 21.66	5 20 45.3 15 36.0	0.328 2119 9300	14 45.7
25	I 2 54 14.85 2 22.04	5 36 21.3 15 35.3	0.329 1419 9184	14 44.1
26	I 2 56 36.89 2 22.45	5 51 56.6 15 34.5	0.330 0603 9069	14 42.5
27	I 2 58 59.34 2 22.86	6 7 31.1 15 33.5	0.330 9672 8956	14 41.0
28	I 3 1 22.20 2 23.27	6 23 4.6 15 32.5	0.331 8628 8843	14 39.4
29	I 3 3 45.47 2 23.69	—6 38 37.1 15 31.3	0.332 7471 8730	14 37.9
30	I 3 6 9.16 2 24.11	6 54 8.4 15 30.0	0.333 6201 8621	14 36.3
31	I 3 8 33.27 2 24.55	7 9 38.4 15 28.6	0.334 4822 8511	14 34.8
Sept. 1	I 3 10 57.82 2 24.98	7 25 7.0 15 27.2	0.335 3333 8403	14 33.3
2	I 3 13 22.80 2 25.43	7 40 34.2 15 25.6	0.336 1736 8295	14 31.7
3	I 3 15 48.23	—7 55 59.8	0.337 0031	14 30.2

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Sept. 3	13 ^h 15 ^m 48.23 ^s 2 25.89	— 7 55 59.8 15 23.8	0.337 0031 8189	14 30.2
4	13 18 14.12 2 26.36	8 11 23.6 15 22.1	0.337 8220 8081	14 28.7
5	13 20 40.48 2 26.82	8 26 45.7 15 20.2	0.338 6301 7974	14 27.2
6	13 23 7.30 2 27.30	8 42 5.9 15 18.1	0.339 4275 7870	14 25.7
7	13 25 34.60 2 27.79	8 57 24.0 15 15.9	0.340 2145 7764	14 24.3
8	13 28 2.39 2 28.28	9 12 39.9 15 13.7	0.340 9909 7659	14 22.8
9	13 30 30.67 2 28.77	— 9 27 53.6 15 11.2	0.341 7568 7554	14 21.3
10	13 32 59.44 2 29.27	9 43 4.8 15 8.6	0.342 5122 7448	14 19.9
11	13 35 28.71 2 29.79	9 58 13.4 15 6.0	0.343 2570 7342	14 18.4
12	13 37 58.50 2 30.29	10 13 19.4 15 3.1	0.343 9912 7238	14 17.0
13	13 40 28.79 2 30.81	10 28 22.5 15 0.0	0.344 7150 7132	14 15.6
14	13 42 59.60 2 31.33	10 43 22.5 14 56.9	0.345 4282 7027	14 14.1
15	13 45 30.93 2 31.85	— 10 58 19.4 14 53.7	0.346 1309 6923	14 12.7
16	13 48 2.78 2 32.37	11 13 13.1 14 50.3	0.346 8232 6820	14 11.3
17	13 50 35.15 2 32.91	11 28 3.4 14 46.5	0.347 5052 6719	14 9.9
18	13 53 8.06 2 33.45	11 42 49.9 14 42.8	0.348 1771 6618	14 8.5
19	13 55 41.51 2 33.98	11 57 32.7 14 38.9	0.348 8389 6519	14 7.1
20	13 58 15.49 2 34.52	12 12 11.6 14 34.8	0.349 4908 6422	14 5.8
21	14 0 50.01 2 35.07	— 12 26 46.4 14 30.5	0.350 1330 6324	14 4.4
22	14 3 25.08 2 35.62	12 41 16.9 14 26.3	0.350 7654 6229	14 3.0
23	14 6 0.70 2 36.19	12 55 43.2 14 21.8	0.351 3883 6135	14 1.7
24	14 8 36.89 2 36.75	13 10 5.0 14 17.0	0.352 0018 6042	14 0.4
25	14 11 13.64 2 37.32	13 24 22.0 14 12.3	0.352 6060 5951	13 59.1
26	14 13 50.96 2 37.91	13 38 34.3 14 7.4	0.353 2011 5859	13 57.8
27	14 16 28.87 2 38.48	— 13 52 41.7 14 2.3	0.353 7870 5770	13 56.5
28	14 19 7.35 2 39.07	14 6 44.0 13 57.1	0.354 3640 5680	13 55.2
29	14 21 46.42 2 39.67	14 20 41.1 13 51.8	0.354 9320 5592	13 53.9
30	14 24 26.09 2 40.27	14 34 32.9 13 46.2	0.355 4912 5504	13 52.6
Okt. 1	14 27 6.36 2 40.88	14 48 19.1 13 40.6	0.356 0416 5417	13 51.3
2	14 29 47.24 2 41.50	15 1 59.7 13 34.8	0.356 5833 5331	13 50.1
3	14 32 28.74 2 42.11	— 15 15 34.5 13 28.7	0.357 1164 5245	13 48.8
4	14 35 10.85 2 42.74	15 29 3.2 13 22.7	0.357 6409 5160	13 47.6
5	14 37 53.59 2 43.37	15 42 25.9 13 16.4	0.358 1569 5075	13 46.4
6	14 40 36.96 2 44.00	15 55 42.3 13 10.0	0.358 6644 4990	13 45.2
7	14 43 20.96 2 44.65	16 8 52.3 13 3.3	0.359 1634 4905	13 44.0
8	14 46 5.61 2 45.28	16 21 55.6 12 56.6	0.359 6539 4821	13 42.8
9	14 48 50.89 2 45.93	— 16 34 52.2 12 49.6	0.360 1360 4736	13 41.6
10	14 51 36.82 2 46.58	16 47 41.8 12 42.6	0.360 6096 4649	13 40.4
11	14 54 23.40 2 47.22	17 0 24.4 12 35.3	0.361 0745 4565	13 39.2
12	14 57 10.62 2 47.88	17 12 59.7 12 27.7	0.361 5310 4480	13 38.1
13	14 59 58.50 2 48.52	17 25 27.4 12 20.1	0.361 9790 4396	13 37.0
14	15 2 47.02	— 17 37 47.5	0.362 4186	13 35.8

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Okt. 14	15 ^h 2 ^m 47.02 ^s 2 49.18	—17 ^m 37 ^s 47.5 ^{''} 12 12.2	0.362 4186	13 35.8
15	15 5 36.20 2 49.82	17 49 59.7 12 4.2	0.362 8499 4313	13 34.7
16	15 8 26.02 2 50.47	18 2 3.9 11 55.9	0.363 2730 4148	13 33.6
17	15 11 16.49 2 51.12	18 13 59.8 11 47.6	0.363 6878 4068	13 32.5
18	15 14 7.61 2 51.77	18 25 47.4 11 39.0	0.364 0946 3989	13 31.4
19	15 16 59.38 2 52.42	18 37 26.4 11 30.3	0.364 4935 3911	13 30.4
20	15 19 51.80 2 53.06	—18 48 56.7 11 21.3	0.364 8846 3833	13 29.3
21	15 22 44.86 2 53.72	19 0 18.0 11 12.3	0.365 2679 3758	13 28.3
22	15 25 38.58 2 54.37	19 11 30.3 11 3.1	0.365 6437 3684	13 27.2
23	15 28 32.95 2 55.02	19 22 33.4 10 53.6	0.366 0121 3610	13 26.2
24	15 31 27.97 2 55.66	19 33 27.0 10 44.0	0.366 3731 3538	13 25.2
25	15 34 23.63 2 56.32	19 44 11.0 10 34.2	0.366 7269 3466	13 24.2
26	15 37 19.95 2 56.97	—19 54 45.2 10 24.3	0.367 0735 3396	13 23.2
27	15 40 16.92 2 57.62	20 5 9.5 10 14.2	0.367 4131 3327	13 22.2
28	15 43 14.54 2 58.27	20 15 23.7 10 4.0	0.367 7458 3259	13 21.2
29	15 46 12.81 2 58.92	20 25 27.7 9 53.5	0.368 0717 3190	13 20.2
30	15 49 11.73 2 59.57	20 35 21.2 9 42.9	0.368 3907 3122	13 19.3
31	15 52 11.30 3 0.22	20 45 4.1 9 32.2	0.368 7029 3055	13 18.3
Nov. 1	15 55 11.52 3 0.86	—20 54 36.3 9 21.3	0.369 0084 2989	13 17.4
2	15 58 12.38 3 1.52	21 3 57.6 9 10.2	0.369 3073 2923	13 16.5
3	15 1 13.90 3 2.16	21 13 7.8 8 58.8	0.369 5996 2857	13 15.6
4	16 4 16.06 3 2.79	21 22 6.6 8 47.3	0.369 8853 2791	13 14.7
5	16 7 18.85 3 3.43	21 30 53.9 8 35.8	0.370 1644 2725	13 13.8
6	16 10 22.28 3 4.05	21 39 29.7 8 24.0	0.370 4369 2659	13 12.9
7	16 13 26.33 3 4.69	—21 47 53.7 8 12.0	0.370 7028 2593	13 12.0
8	16 16 31.02 3 5.29	21 56 5.7 7 59.9	0.370 9621 2527	13 11.2
9	16 19 36.31 3 5.91	22 4 5.6 7 47.7	0.371 2148 2461	13 10.3
10	16 22 42.22 3 6.51	22 11 53.3 7 35.1	0.371 4609 2395	13 9.5
11	16 25 48.73 3 7.11	22 19 28.4 7 22.4	0.371 7004 2330	13 8.6
12	16 28 55.84 3 7.68	22 26 50.8 7 9.7	0.371 9334 2266	13 7.8
13	16 32 3.52 3 8.26	—22 34 0.5 6 56.6	0.372 1600 2203	13 7.0
14	16 35 11.78 3 8.82	22 40 57.1 6 43.5	0.372 3803 2141	13 6.2
15	16 38 20.60 3 9.37	22 47 40.6 6 30.2	0.372 5944 2080	13 5.4
16	16 41 29.97 3 9.91	22 54 10.8 6 16.8	0.372 8024 2019	13 4.7
17	16 44 39.88 3 10.45	23 0 27.6 6 3.2	0.373 0043 1961	13 3.9
18	16 47 50.33 3 10.97	23 6 30.8 5 49.5	0.373 2004 1902	13 3.1
19	16 51 1.30 3 11.49	—23 12 20.3 5 35.5	0.373 3906 1845	13 2.4
20	16 54 12.79 3 11.99	23 17 55.8 5 21.6	0.373 5751 1790	13 1.6
21	16 57 24.78 3 12.48	23 23 17.4 5 7.5	0.373 7541 1735	13 0.9
22	17 0 37.26 3 12.96	23 28 24.9 4 53.2	0.373 9276 1681	13 0.2
23	17 3 50.22 3 13.43	23 33 18.1 4 38.8	0.374 0957 1628	12 59.4
24	17 7 3.65	—23 37 56.9	0.374 2585	12 58.7

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Nov. 24	17 ^h 7 ^m 3.65 ^s 13.90	—23° 37' 56.9" 24.3	0.374 2585 ¹⁵⁷⁷	12 ^h 58.7 ^m
25	17 10 17.55 14.35	23 42 21.2 4 9.7	0.374 4162 ¹⁵²⁷	12 58.0
26	17 13 31.90 14.79	23 46 30.9 3 54.9	0.374 5689 ¹⁴⁷⁷	12 57.3
27	17 16 46.69 15.22	23 50 25.8 3 40.1	0.374 7166 ¹⁴²⁷	12 56.6
28	17 20 1.91 15.64	23 54 5.9 3 25.0	0.374 8593 ¹³⁸⁰	12 55.9
29	17 23 17.55 16.05	23 57 30.9 3 9.9	0.374 9973 ¹³³¹	12 55.3
30	17 26 33.60 16.44	—24 0 40.8 2 54.8	0.375 1304 ¹²⁸³	12 54.6
Dez. 1	17 29 50.04 16.82	24 3 35.6 2 39.5	0.375 2587 ¹²³⁷	12 53.9
2	17 33 6.86 17.20	24 6 15.1 2 24.1	0.375 3824 ¹¹⁸⁸	12 53.3
3	17 36 24.06 17.55	24 8 39.2 2 8.6	0.375 5012 ¹¹⁴⁰	12 52.6
4	17 39 41.61 17.89	24 10 47.8 1 53.0	0.375 6152 ¹⁰⁹³	12 52.0
5	17 42 59.50 18.22	24 12 40.8 1 37.3	0.375 7245 ¹⁰⁴⁵	12 51.3
6	17 46 17.72 18.53	—24 14 18.1 1 21.6	0.375 8290 ⁹⁹⁸	12 50.7
7	17 49 36.25 18.83	24 15 39.7 1 5.7	0.375 9288 ⁹⁵¹	12 50.1
8	17 52 55.08 19.11	24 16 45.4 0 49.8	0.376 0239 ⁹⁰⁴	12 49.4
9	17 56 14.19 19.36	24 17 35.2 0 33.9	0.376 1143 ⁸⁵⁷	12 48.8
10	17 59 33.55 19.61	24 18 9.1 0 17.8	0.376 2000 ⁸¹¹	12 48.2
11	18 2 53.16 19.83	24 18 26.9 0 1.7	0.376 2811 ⁷⁶⁵	12 47.6
12	18 6 12.99 20.03	—24 18 28.6 0 14.4	0.376 3576 ⁷²¹	12 47.0
13	18 9 33.02 20.22	24 18 14.2 0 30.6	0.376 4297 ⁶⁷⁷	12 46.4
14	18 12 53.24 20.39	24 17 43.6 0 46.9	0.376 4974 ⁶³³	12 45.8
15	18 16 13.63 20.53	24 16 56.7 1 3.1	0.376 5607 ⁵⁹¹	12 45.2
16	18 19 34.16 20.67	24 15 53.6 1 19.3	0.376 6198 ⁵⁵⁰	12 44.6
17	18 22 54.83 20.79	24 14 34.3 1 35.6	0.376 6748 ⁵¹⁰	12 44.0
18	18 26 15.62 20.90	—24 12 58.7 1 51.9	0.376 7258 ⁴⁷²	12 43.4
19	18 29 36.52 20.98	24 11 6.8 2 8.3	0.376 7730 ⁴³⁴	12 42.8
20	18 32 57.50 21.04	24 8 58.5 2 24.7	0.376 8164 ³⁹⁷	12 42.2
21	18 36 18.54 21.10	24 6 33.8 2 40.9	0.376 8561 ³⁶³	12 41.6
22	18 39 39.64 21.13	24 3 52.9 2 57.2	0.376 8924 ³²⁸	12 41.0
23	18 43 0.77 21.15	24 0 55.7 3 13.5	0.376 9252 ²⁹⁴	12 40.4
24	18 46 21.92 21.16	—23 57 42.2 3 29.8	0.376 9546 ²⁶²	12 39.8
25	18 49 43.08 21.15	23 54 12.4 3 46.1	0.376 9808 ²²⁹	12 39.2
26	18 53 4.23 21.14	23 50 26.3 4 2.3	0.377 0037 ¹⁹⁸	12 38.6
27	18 56 25.37 21.11	23 46 24.0 4 18.5	0.377 0235 ¹⁶⁷	12 38.0
28	18 59 46.48 21.05	23 42 5.5 4 34.7	0.377 0402 ¹³⁶	12 37.4
29	19 3 7.53 20.99	23 37 30.8 4 50.8	0.377 0538 ¹⁰⁶	12 36.9
30	19 6 28.52 20.92	—23 32 40.0 5 7.0	0.377 0644 ⁷⁶	12 36.3
31	19 9 49.44 20.86	23 27 33.0 5 23.1	0.377 0720 ⁴⁶	12 35.7
32	19 13 10.30	—23 22 9.9	0.377 0766	12 35.1

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Jan. 0	7 ^h 11 ^m 6. ^s 53 34.32	+22° 35' 23.2" I 6.6	0.624 9396 1676	0 ^h 36. ^m
1	7 10 32.21 34.47	22 36 29.8 I 6.5	0.624 7720 1353	0 31.7
2	7 9 57.74 34.61	22 37 36.3 I 6.1	0.624 6367 1028	0 27.2
3	7 9 23.13 34.71	22 38 42.4 I 5.8	0.624 5339 702	0 22.7
4	7 8 48.42 34.78	22 39 48.2 I 5.4	0.624 4637 376	0 18.2
5	7 8 13.64 34.83	22 40 53.6 I 4.9	0.624 4261 50	0 13.7
6	7 7 38.81 34.86	+22 41 58.5 I 4.5	0.624 4211 276	0 9.2
7	7 7 3.95 34.86	22 43 3.0 I 3.9	0.624 4487 604	0 4.7
8	7 6 29.09 34.83	22 44 6.9 I 3.3	0.624 5091 931	{ 0.2 23 55.7 }
9	7 5 54.26 34.78	22 45 10.2 I 2.7	0.624 6022 1258	23 51.2
10	7 5 19.48 34.71	22 46 12.9 I 2.1	0.624 7280 1584	23 46.6
11	7 4 44.77 34.61	22 47 15.0 I 1.4	0.624 8864 1910	23 42.1
12	7 4 10.16 34.47	+22 48 16.4 I 0.6	0.625 0774 2235	23 37.6
13	7 3 35.69 34.31	22 49 17.0 o 59.9	0.625 3009 2558	23 33.1
14	7 3 1.38 34.13	22 50 16.9 o 59.1	0.625 5567 2881	23 28.6
15	7 2 27.25 33.92	22 51 16.0 o 58.2	0.625 8448 3202	23 24.1
16	7 1 53.33 33.68	22 52 14.2 o 57.4	0.626 1650 3521	23 19.6
17	7 1 19.65 33.42	22 53 11.6 o 56.5	0.626 5171 3838	23 15.1
18	7 0 46.23 33.13	+22 54 8.1 o 55.5	0.626 9009 4152	23 10.7
19	7 0 13.10 32.81	22 55 3.6 o 54.6	0.627 3161 4463	23 6.2
20	6 59 40.29 32.46	22 55 58.2 o 53.6	0.627 7624 4771	23 1.7
21	6 59 7.83 32.09	22 56 51.8 o 52.7	0.628 2395 5075	22 57.3
22	6 58 35.74 31.70	22 57 44.5 o 51.7	0.628 7470 5377	22 52.8
23	6 58 4.04 31.28	22 58 36.2 o 50.6	0.629 2847 5673	22 48.4
24	6 57 32.76 30.85	+22 59 26.8 o 49.5	0.629 8520 5966	22 43.9
25	6 57 1.91 30.39	23 0 16.3 o 48.5	0.630 4486 6255	22 39.5
26	6 56 31.52 29.90	23 1 4.8 o 47.3	0.631 0741 6540	22 35.0
27	6 56 1.62 29.39	23 1 52.1 o 46.3	0.631 7281 6820	22 30.6
28	6 55 32.23 28.87	23 2 38.4 o 45.1	0.632 4101 7094	22 26.2
29	6 55 3.36 28.33	23 3 23.5 o 44.1	0.633 1195 7364	22 21.8
30	6 54 35.03 27.76	+23 4 7.6 o 42.9	0.633 8559 7629	22 17.4
31	6 54 7.27 27.18	23 4 50.5 o 41.8	0.634 6188 7890	22 13.0
Febr. 1	6 53 40.09 26.59	23 5 32.3 o 40.7	0.635 4078 8145	22 8.7
2	6 53 13.50 25.97	23 6 13.0 o 39.5	0.636 2223 8394	22 4.3
3	6 52 47.53 25.35	23 6 52.5 o 38.4	0.637 0617 8640	22 0.0
4	6 52 22.18 24.70	23 7 30.9 o 37.3	0.637 9257 8881	21 55.6
5	6 51 57.48 24.04	+23 8 8.2 o 36.1	0.638 8138 9116	21 51.3
6	6 51 33.44 23.37	23 8 44.3 o 35.0	0.639 7254 9345	21 47.0
7	6 51 10.07 22.68	23 9 19.3 o 33.9	0.640 6599 9569	21 42.7
8	6 50 47.39 21.98	23 9 53.2 o 32.7	0.641 6168 9790	21 38.4
9	6 50 25.41 21.26	23 10 25.9 o 31.7	0.642 5958 10005	21 34.1
10	6 50 4.15	+23 10 57.6	0.643 5963	21 29.8

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Febr. 10	6 ^h 50 ^m 4.15 ^s 20.53	+23° 10' 57.6"	0.643 5963 I 0214	21 ^h 29.8 ^m
11	6 49 43.62 19.79	23 11 28.1 29.4	0.644 6177 I 0417	21 25.6
12	6 49 23.83 19.03	23 11 57.5 28.3	0.645 6594 I 0615	21 21.3
13	6 49 4.80 18.27	23 12 25.8 27.2	0.646 7209 I 0806	21 17.1
14	6 48 46.53 17.48	23 12 53.0 26.1	0.647 8015 I 0992	21 12.8
15	6 48 29.05 16.70	23 13 19.1 25.0	0.648 9007 I 1174	21 8.6
16	6 48 12.35 15.90	+23 13 44.1 23.9	0.650 0181 I 1347	21 4.4
17	6 47 56.45 15.10	23 14 8.0 22.8	0.651 1528 I 1515	21 0.3
18	6 47 41.35 14.27	23 14 30.8 21.7	0.652 3043 I 1677	20 56.1
19	6 47 27.08 13.45	23 14 52.5 20.7	0.653 4720 I 1834	20 51.9
20	6 47 13.63 12.62	23 15 13.2 19.5	0.654 6554 I 1982	20 47.8
21	6 47 1.01 11.79	23 15 32.7 18.5	0.655 8536 I 2125	20 43.6
22	6 46 49.22 10.94	+23 15 51.2 17.5	0.657 0661 I 2263	20 39.5
23	6 46 38.28 10.09	23 16 8.7 16.4	0.658 2924 I 2394	20 35.4
24	6 46 28.19 9.24	23 16 25.1 15.3	0.659 5318 I 2518	20 31.3
25	6 46 18.95 8.40	23 16 40.4 14.3	0.660 7836 I 2637	20 27.3
26	6 46 10.55 7.54	23 16 54.7 13.3	0.662 0473 I 2751	20 23.2
27	6 46 3.01 6.69	23 17 8.0 12.2	0.663 3224 I 2857	20 19.2
28	6 45 56.32 5.83	+23 17 20.2 11.3	0.664 6081 I 2958	20 15.1
März 1	6 45 50.49 4.97	23 17 31.5 10.2	0.665 9039 I 3054	20 11.1
2	6 45 45.52 4.12	23 17 41.7 9.2	0.667 2093 I 3144	20 7.1
3	6 45 41.40 3.27	23 17 50.9 8.3	0.668 5237 I 3229	20 3.1
4	6 45 38.13 2.41	23 17 59.2 7.2	0.669 8466 I 3309	19 59.1
5	6 45 35.72 1.55	23 18 6.4 6.2	0.671 1775 I 3384	19 55.2
6	6 45 34.17 0.71	+23 18 12.6 5.2	0.672 5159 I 3455	19 51.2
7	6 45 33.46 0.15	23 18 17.8 4.3	0.673 8614 I 3520	19 47.3
8	6 45 33.61 1.00	23 18 22.1 3.3	0.675 2134 I 3580	19 43.4
9	6 45 34.61 1.85	23 18 25.4 2.4	0.676 5714 I 3636	19 39.5
10	6 45 36.46 2.70	23 18 27.8 1.4	0.677 9350 I 3688	19 35.6
11	6 45 39.16 3.55	23 18 29.2 0.4	0.679 3038 I 3733	19 31.7
12	6 45 42.71 4.39	+23 18 29.6 0.6	0.680 6771 I 3774	19 27.8
13	6 45 47.10 5.22	23 18 29.0 1.6	0.682 0545 I 3811	19 24.0
14	6 45 52.32 6.07	23 18 27.4 2.5	0.683 4356 I 3844	19 20.2
15	6 45 58.39 6.90	23 18 24.9 3.5	0.684 8200 I 3870	19 16.4
16	6 46 5.29 7.73	23 18 21.4 4.5	0.686 2070 I 3893	19 12.6
17	6 46 13.02 8.56	23 18 16.9 5.5	0.687 5963 I 3910	19 8.8
18	6 46 21.58 9.39	+23 18 11.4 6.4	0.688 9873 I 3924	19 5.0
19	6 46 30.97 10.20	23 18 5.0 7.4	0.690 3797 I 3933	19 1.2
20	6 46 41.17 11.02	23 17 57.6 8.4	0.691 7730 I 3938	18 57.5
21	6 46 52.19 11.83	23 17 49.2 9.4	0.693 1668 I 3937	18 53.7
22	6 47 4.02 12.63	23 17 39.8 10.4	0.694 5605 I 3933	18 50.0
23	6 47 16.65	+23 17 29.4	0.695 9538	18 46.3

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
März 23	6 ^h 47 ^m 16.65 ^s 13.44	+23° 17' 29.4" 11.4	0.695 9538 I 3923	18 ^h 46.3 ^m
24	6 47 30.09 14.22	23 17 18.0 12.4	0.697 3461 I 3910	18 42.6
25	6 47 44.31 15.00	23 17 5.6 13.4	0.698 7371 I 3893	18 38.9
26	6 47 59.31 15.77	23 16 52.2 14.5	0.700 1264 I 3873	18 35.2
27	6 48 15.08 16.55	23 16 37.7 15.5	0.701 5137 I 3850	18 31.6
28	6 48 31.63 17.31	23 16 22.2 16.5	0.702 8987 I 3822	18 27.9
29	6 48 48.94 18.05	+23 16 5.7 17.5	0.704 2809 I 3790	18 24.3
30	6 49 6.99 18.80	23 15 48.2 18.6	0.705 6599 I 3755	18 20.7
31	6 49 25.79 19.54	23 15 29.6 19.7	0.707 0354 I 3718	18 17.1
April 1	6 49 45.33 20.26	23 15 9.9 20.7	0.708 4072 I 3677	18 13.5
2	6 50 5.59 20.98	23 14 49.2 21.7	0.709 7749 I 3635	18 9.9
3	6 50 26.57 21.68	23 14 27.5 22.7	0.711 1384 I 3589	18 6.3
4	6 50 48.25 22.39	+23 14 4.8 23.8	0.712 4973 I 3540	18 2.7
5	6 51 10.64 23.09	23 13 41.0 24.9	0.713 8513 I 3489	17 59.2
6	6 51 33.73 23.79	23 13 16.1 25.9	0.715 2002 I 3436	17 55.6
7	6 51 57.52 24.47	23 12 50.2 27.1	0.716 5438 I 3380	17 52.1
8	6 52 21.99 25.14	23 12 23.1 28.1	0.717 8818 I 3321	17 48.6
9	6 52 47.13 25.80	23 11 55.0 29.3	0.719 2139 I 3260	17 45.1
10	6 53 12.93 26.47	+23 11 25.7 30.4	0.720 5399 I 3196	17 41.6
11	6 53 39.40 27.12	23 10 55.3 31.5	0.721 8595 I 3130	17 38.1
12	6 54 6.52 27.78	23 10 23.8 32.7	0.723 1725 I 3061	17 34.6
13	6 54 34.30 28.41	23 9 51.1 33.9	0.724 4786 I 2988	17 31.2
14	6 55 2.71 29.04	23 9 17.2 35.0	0.725 7774 I 2915	17 27.7
15	6 55 31.75 29.66	23 8 42.2 36.1	0.727 0689 I 2838	17 24.3
16	6 56 1.41 30.29	+23 8 6.1 37.3	0.728 3527 I 2760	17 20.8
17	6 56 31.70 30.90	23 7 28.8 38.6	0.729 6287 I 2679	17 17.4
18	6 57 2.60 31.49	23 6 50.2 39.8	0.730 8966 I 2595	17 14.0
19	6 57 34.09 32.09	23 6 10.4 41.0	0.732 1561 I 2509	17 10.6
20	6 58 6.18 32.67	23 5 29.4 42.3	0.733 4070 I 2420	17 7.2
21	6 58 38.85 33.24	23 4 47.1 43.5	0.734 6490 I 2331	17 3.8
22	6 59 12.09 33.81	+23 4 3.6 44.7	0.735 8821 I 2239	17 0.4
23	6 59 45.90 34.36	23 3 18.9 45.9	0.737 1060 I 2145	16 57.1
24	7 0 20.26 34.90	23 2 33.0 47.3	0.738 3205 I 2050	16 53.7
25	7 0 55.16 35.44	23 1 45.7 48.5	0.739 5255 I 1954	16 50.4
26	7 1 30.60 35.97	23 0 57.2 49.9	0.740 7209 I 1855	16 47.0
27	7 2 6.57 36.49	23 0 7.3 51.1	0.741 9064 I 1756	16 43.7
28	7 2 43.06 37.00	+22 59 16.2 52.5	0.743 0820 I 1655	16 40.4
29	7 3 20.06 37.50	22 58 23.7 53.7	0.744 2475 I 1552	16 37.1
30	7 3 57.56 38.00	22 57 30.0 55.0	0.745 4027 I 1447	16 33.8
Mai 1	7 4 35.56 38.48	22 56 35.0 56.3	0.746 5474 I 1342	16 30.5
2	7 5 14.04 38.96	22 55 38.7 57.7	0.747 6816 I 1236	16 27.2
3	7 5 53.00	+22 54 41.0	0.748 8052	16 23.9

Tag	0 ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Mai				
3	7 ^h 5 ^m 53.00 ^s 39.43	+22° 54' 41.0" 0 59.0	0.748 8052 I 1129	16 ^h 23.9 ^m
4	7 6 32.43 39.89	22 53 42.0 I 0.4	0.749 9181 I 1023	16 20.6
5	7 7 12.32 40.35	22 52 41.6 I 1.7	0.751 0204 I 0916	16 17.4
6	7 7 52.67 40.80	22 51 39.9 I 3.1	0.752 1120 I 0806	16 14.1
7	7 8 33.47 41.23	22 50 36.8 I 4.5	0.753 1926 I 0696	16 10.9
8	7 9 14.70 41.67	22 49 32.3 I 5.9	0.754 2622 I 0584	16 7.6
9	7 9 56.37 42.10	+22 48 26.4 I 7.2	0.755 3206 I 0470	16 4.4
10	7 10 38.47 42.52	22 47 19.2 I 8.7	0.756 3676 I 0356	16 1.2
11	7 11 20.99 42.94	22 46 10.5 I 10.1	0.757 4032 I 0240	15 57.9
12	7 12 3.93 43.34	22 45 0.4 I 11.5	0.758 4272 I 0123	15 54.7
13	7 12 47.27 43.75	22 43 48.9 I 12.9	0.759 4395 I 0006	15 51.5
14	7 13 31.02 44.14	22 42 36.0 I 14.4	0.760 4401 9888	15 48.3
15	7 14 15.16 44.52	+22 41 21.6 I 15.8	0.761 4289 9769	15 45.1
16	7 14 59.68 44.90	22 40 5.8 I 17.3	0.762 4058 9648	15 41.9
17	7 15 44.58 45.27	22 38 48.5 I 18.8	0.763 3706 9525	15 38.7
18	7 16 29.85 45.63	22 37 29.7 I 20.2	0.764 3231 9403	15 35.6
19	7 17 15.48 45.98	22 36 9.5 I 21.6	0.765 2634 9279	15 32.4
20	7 18 1.46 46.33	22 34 47.9 I 23.2	0.766 1913 9153	15 29.2
21	7 18 47.79 46.66	+22 33 24.7 I 24.6	0.767 1066 9029	15 26.1
22	7 19 34.45 47.00	22 32 0.1 I 26.2	0.768 0095 8903	15 22.9
23	7 20 21.45 47.32	22 30 33.9 I 27.6	0.768 8998 8776	15 19.8
24	7 21 8.77 47.64	22 29 6.3 I 29.0	0.769 7774 8648	15 16.6
25	7 21 56.41 47.94	22 27 37.3 I 30.6	0.770 6422 8522	15 13.5
26	7 22 44.35 48.24	22 26 6.7 I 32.0	0.771 4944 8394	15 10.3
27	7 23 32.59 48.53	+22 24 34.7 I 33.5	0.772 3338 8265	15 7.2
28	7 24 21.12 48.82	22 23 1.2 I 35.0	0.773 1603 8137	15 4.1
29	7 25 9.94 49.09	22 21 26.2 I 36.5	0.773 9740 8008	15 1.0
30	7 25 59.03 49.37	22 19 49.7 I 38.0	0.774 7748 7880	14 57.9
31	7 26 48.40 49.63	22 18 11.7 I 39.5	0.775 5628 7751	14 54.8
Juni				
1	7 27 38.03 49.89	22 16 32.2 I 41.0	0.776 3379 7622	14 51.7
2	7 28 27.92 50.14	+22 14 51.2 I 42.5	0.777 1001 7492	14 48.6
3	7 29 18.06 50.40	22 13 8.7 I 44.0	0.777 8493 7362	14 45.5
4	7 30 8.46 50.63	22 11 24.7 I 45.4	0.778 5855 7231	14 42.4
5	7 30 59.09 50.88	22 9 39.3 I 47.0	0.779 3086 7101	14 39.3
6	7 31 49.97 51.11	22 7 52.3 I 48.5	0.780 0187 6968	14 36.2
7	7 32 41.08 51.34	22 6 3.8 I 50.0	0.780 7155 6837	14 33.1
8	7 33 32.42 51.55	+22 4 13.8 I 51.4	0.781 3992 6704	14 30.0
9	7 34 23.97 51.77	22 2 22.4 I 53.0	0.782 0696 6571	14 26.9
10	7 35 15.74 51.98	22 0 29.4 I 54.5	0.782 7267 6438	14 23.9
11	7 36 7.72 52.19	21 58 34.9 I 56.0	0.783 3705 6304	14 20.8
12	7 36 59.91 52.37	21 56 38.9 I 57.4	0.784 0009 6170	14 17.7
13	7 37 52.28	+21 54 41.5	0.784 6179	14 14.7

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juni 13	7 ^h 37 ^m 52.28 ^s 52.57	+21° 54' 41.5" 1' 59.0	0.784 6179 6034	14 ^h 14.7 ^m
14	7 38 44.85 52.75	21 52 42.5 2 0.5	0.785 2213 5900	14 11.6
15	7 39 37.60 52.94	21 50 42.0 2 2.0	0.785 8113 5764	14 8.6
16	7 40 30.54 53.10	21 48 40.0 2 3.4	0.786 3877 5627	14 5.5
17	7 41 23.64 53.27	21 46 36.6 2 5.0	0.786 9504 5490	14 2.5
18	7 42 16.91 53.43	21 44 31.6 2 6.4	0.787 4994 5353	13 59.4
19	7 43 10.34 53.58	+21 42 25.2 2 7.9	0.788 0347 5215	13 56.4
20	7 44 3.92 53.72	21 40 17.3 2 9.4	0.788 5562 5078	13 53.4
21	7 44 57.64 53.86	21 38 7.9 2 10.8	0.789 0640 4940	13 50.3
22	7 45 51.50 53.99	21 35 57.1 2 12.2	0.789 5580 4803	13 47.3
23	7 46 45.49 54.12	21 33 44.9 2 13.7	0.790 0383 4666	13 44.2
24	7 47 39.61 54.24	21 31 31.2 2 15.1	0.790 5049 4528	13 41.2
25	7 48 33.85 54.35	+21 29 16.1 2 16.5	0.790 9577 4390	13 38.2
26	7 49 28.20 54.46	21 26 59.6 2 17.9	0.791 3967 4254	13 35.1
27	7 50 22.66 54.57	21 24 41.7 2 19.3	0.791 8221 4116	13 32.1
28	7 51 17.23 54.66	21 22 22.4 2 20.7	0.792 2337 3980	13 29.1
29	7 52 11.89 54.76	21 20 1.7 2 22.0	0.792 6317 3842	13 26.1
30	7 53 6.65 54.86	21 17 39.7 2 23.5	0.793 0159 3705	13 23.0
Juli 1	7 54 1.51 54.94	+21 15 16.2 2 24.8	0.793 3864 3568	13 20.0
2	7 54 56.45 55.02	21 12 51.4 2 26.1	0.793 7432 3430	13 17.0
3	7 55 51.47 55.09	21 10 25.3 2 27.5	0.794 0862 3292	13 14.0
4	7 56 46.56 55.16	21 7 57.8 2 28.9	0.794 4154 3155	13 11.0
5	7 57 41.72 55.24	21 5 28.9 2 30.2	0.794 7309 3017	13 7.9
6	7 58 36.96 55.30	21 2 58.7 2 31.5	0.795 0326 2879	13 4.9
7	7 59 32.26 55.36	+21 0 27.2 2 32.9	0.795 3205 2741	13 1.9
8	8 0 27.62 55.41	20 57 54.3 2 34.1	0.795 5946 2601	12 58.9
9	8 1 23.03 55.45	20 55 20.2 2 35.4	0.795 8547 2462	12 55.9
10	8 2 18.48 55.50	20 52 44.8 2 36.7	0.796 1009 2323	12 52.9
11	8 3 13.98 55.54	20 50 8.1 2 37.9	0.796 3332 2183	12 49.9
12	8 4 9.52 55.58	20 47 30.2 2 39.2	0.796 5515 2042	12 46.8
13	8 5 5.10 55.60	+20 44 51.0 2 40.4	0.796 7557 1901	12 43.8
14	8 6 0.70 55.62	20 42 10.6 2 41.7	0.796 9458 1761	12 40.8
15	8 6 56.32 55.63	20 39 28.9 2 42.9	0.797 1219 1620	12 37.8
16	8 7 51.95 55.64	20 36 46.0 2 44.1	0.797 2839 1479	12 34.8
17	8 8 47.59 55.65	20 34 1.9 2 45.2	0.797 4318 1339	12 31.8
18	8 9 43.24 55.65	20 31 16.7 2 46.3	0.797 5657 1198	12 28.8
19	8 10 38.89 55.64	+20 28 30.4 2 47.5	0.797 6855 1057	12 25.8
20	8 11 34.53 55.62	20 25 42.9 2 48.6	0.797 7912 917	12 22.8
21	8 12 30.15 55.61	20 22 54.3 2 49.7	0.797 8829 775	12 19.8
22	8 13 25.76 55.59	20 20 4.6 2 50.7	0.797 9604 635	12 16.8
23	8 14 21.35 55.57	20 17 13.9 2 51.8	0.798 0239 494	12 13.8
24	8 15 16.92	+20 14 22.1	0.798 0733	12 10.7

Tag	0 ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juli 24	8 ^h 15 ^m 16.92 ^s	+20° 14' 22.1"	0.798 0733	12 ^h 10.7 ^m
25	8 16 12.45 ^s 55.53	20 11 29.3 ^s 2 52.8	0.798 1088	355 12 7.7
26	8 17 7.94 ^s 55.49	20 8 35.4 ^s 2 53.9	0.798 1303	215 12 4.7
27	8 18 3.39 ^s 55.45	20 5 40.6 ^s 2 54.8	0.798 1379	76 12 1.7
28	8 18 58.79 ^s 55.40	20 2 44.8 ^s 2 55.8	0.798 1316	63 11 58.7
29	8 19 54.14 ^s 55.35	19 59 48.0 ^s 2 56.8	0.798 1113	203 11 55.7
30	8 20 49.44 ^s 55.30	+19 56 50.4 ^s 2 57.6	0.798 0772	341 11 52.6
31	8 21 44.69 ^s 55.25	19 53 51.8 ^s 2 58.6	0.798 0292	480 11 49.6
Aug. 1	8 22 39.87 ^s 55.18	19 50 52.2 ^s 2 59.6	0.797 9670	622 11 46.6
2	8 23 34.99 ^s 55.12	19 47 51.8 ^s 3 0.4	0.797 8909	761 11 43.6
3	8 24 30.04 ^s 55.05	19 44 50.6 ^s 3 1.2	0.797 8009	900 11 40.6
4	8 25 25.02 ^s 54.98	19 41 48.5 ^s 3 2.1	0.797 6969	1040 11 37.6
5	8 26 19.92 ^s 54.90	+19 38 45.5 ^s 3 3.0	0.797 5789	1180 11 34.5
6	8 27 14.74 ^s 54.82	19 35 41.7 ^s 3 3.8	0.797 4469	1320 11 31.5
7	8 28 9.47 ^s 54.73	19 32 37.2 ^s 3 4.5	0.797 3010	1459 11 28.5
8	8 29 4.11 ^s 54.64	19 29 32.0 ^s 3 5.2	0.797 1409	1601 11 25.5
9	8 29 58.65 ^s 54.54	19 26 26.0 ^s 3 6.0	0.796 9668	1741 11 22.4
10	8 30 53.08 ^s 54.43	19 23 19.3 ^s 3 6.7	0.796 7785	1883 11 19.4
11	8 31 47.41 ^s 54.33	+19 20 11.9 ^s 3 7.4	0.796 5762	2023 11 16.3
12	8 32 41.64 ^s 54.23	19 17 3.9 ^s 3 8.0	0.796 3597	2165 11 13.3
13	8 33 35.74 ^s 54.10	19 13 55.3 ^s 3 8.6	0.796 1291	2306 11 10.3
14	8 34 29.72 ^s 53.98	19 10 46.1 ^s 3 9.2	0.795 8844	2447 11 7.3
15	8 35 23.57 ^s 53.85	19 7 36.3 ^s 3 9.8	0.795 6255	2589 11 4.2
16	8 36 17.28 ^s 53.71	19 4 26.0 ^s 3 10.3	0.795 3526	2729 11 1.2
17	8 37 10.85 ^s 53.57	+19 1 15.1 ^s 3 10.9	0.795 0656	2870 10 58.2
18	8 38 4.27 ^s 53.42	18 58 3.8 ^s 3 11.3	0.794 7645	3011 10 55.1
19	8 38 57.55 ^s 53.28	18 54 52.1 ^s 3 11.7	0.794 4494	3151 10 52.1
20	8 39 50.67 ^s 53.12	18 51 39.9 ^s 3 12.2	0.794 1203	3291 10 49.0
21	8 40 43.63 ^s 52.96	18 48 27.4 ^s 3 12.5	0.793 7774	3429 10 45.9
22	8 41 36.43 ^s 52.80	18 45 14.5 ^s 3 12.9	0.793 4205	3569 10 42.9
23	8 42 29.05 ^s 52.62	+18 42 1.4 ^s 3 13.1	0.793 0498	3707 10 39.8
24	8 43 21.50 ^s 52.45	18 38 47.9 ^s 3 13.5	0.792 6653	3845 10 36.8
25	8 44 13.78 ^s 52.28	18 35 34.2 ^s 3 13.7	0.792 2669	3984 10 33.7
26	8 45 5.87 ^s 52.09	18 32 20.3 ^s 3 13.9	0.791 8547	4122 10 30.6
27	8 45 57.78 ^s 51.91	18 29 6.1 ^s 3 14.2	0.791 4288	4259 10 27.5
28	8 46 49.49 ^s 51.71	18 25 51.7 ^s 3 14.4	0.790 9892	4396 10 24.5
29	8 47 41.01 ^s 51.52	+18 22 37.3 ^s 3 14.4	0.790 5358	4534 10 21.4
30	8 48 32.34 ^s 51.33	18 19 22.7 ^s 3 14.6	0.790 0686	4672 10 18.3
31	8 49 23.46 ^s 51.12	18 16 8.0 ^s 3 14.7	0.789 5877	4809 10 15.2
Sept. 1	8 50 14.37 ^s 50.91	18 12 53.2 ^s 3 14.8	0.789 0931	4946 10 12.1
2	8 51 5.06 ^s 50.69	18 9 38.4 ^s 3 14.8	0.788 5847	5084 10 9.0
3	8 51 55.54 ^s 50.48	+18 6 23.6 ^s 3 14.8	0.788 0626	5221 10 5.9

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Sept. 3	8 ^h 51 ^m 55.54 ^s 50.26	+18° 6' 23.6" 3 14.8	0.788 0626	10 ^h 5.9
4	8 52 45.80 50.03	18 3 8.8 3 14.6	0.787 5268 5358	10 2.8
5	8 53 35.83 49.80	17 59 54.2 3 14.6	0.786 9772 5496	9 59.7
6	8 54 25.63 49.56	17 56 39.6 3 14.4	0.786 4140 5632	9 56.6
7	8 55 15.19 49.32	17 53 25.2 3 14.2	0.785 8370 5770	9 53.5
8	8 56 4.51 49.06	17 50 11.0 3 14.0	0.785 2464 5906	9 50.4
9	8 56 53.57 48.80	+17 46 57.0 3 13.7	0.784 6421 6043	9 47.3
10	8 57 42.37 48.55	17 43 43.3 3 13.5	0.784 0241 6180	9 44.2
11	8 58 30.92 48.27	17 40 29.8 3 13.1	0.783 3925 6316	9 41.0
12	8 59 19.19 48.01	17 37 16.7 3 12.7	0.782 7472 6453	9 37.9
13	9 0 7.20 47.73	17 34 4.0 3 12.1	0.782 0884 6588	9 34.8
14	9 0 54.93 47.43	17 30 51.9 3 11.7	0.781 4162 6722	9 31.6
15	9 1 42.36 47.15	+17 27 40.2 3 11.2	0.780 7305 6857	9 28.5
16	9 2 29.51 46.84	17 24 29.0 3 10.7	0.780 0315 6990	9 25.3
17	9 3 16.35 46.54	17 21 18.3 3 10.0	0.779 3192 7123	9 22.1
18	9 4 2.89 46.24	17 18 8.3 3 9.4	0.778 5937 7255	9 19.0
19	9 4 49.13 45.92	17 14 58.9 3 8.8	0.777 8551 7386	9 15.8
20	9 5 35.05 45.60	17 11 50.1 3 8.0	0.777 1034 7517	9 12.7
21	9 6 20.65 45.28	+17 8 42.1 3 7.3	0.776 3387 7647	9 9.5
22	9 7 5.93 44.95	17 5 34.8 3 6.4	0.775 5611 7776	9 6.3
23	9 7 50.88 44.62	17 2 28.4 3 5.6	0.774 7706 7905	9 3.1
24	9 8 35.50 44.27	16 59 22.8 3 4.7	0.773 9673 8033	8 59.9
25	9 9 19.77 43.94	16 56 18.1 3 3.8	0.773 1513 8160	8 56.7
26	9 10 3.71 43.59	16 53 14.3 3 2.8	0.772 3226 8287	8 53.5
27	9 10 47.30 43.23	+16 50 11.5 3 1.9	0.771 4813 8413	8 50.3
28	9 11 30.53 42.87	16 47 9.6 3 0.8	0.770 6274 8539	8 47.1
29	9 12 13.40 42.51	16 44 8.8 2 59.7	0.769 7609 8665	8 43.9
30	9 12 55.91 42.14	16 41 9.1 2 58.7	0.768 8820 8789	8 40.6
Okt.	1 9 13 38.05 41.76	16 38 10.4 2 57.5	0.767 9907 8913	8 37.4
	2 9 14 19.81 41.38	16 35 12.9 2 56.3	0.767 0870 9037	8 34.2
	3 9 15 1.19 40.98	+16 32 16.6 2 55.0	0.766 1710 9160	8 30.9
	4 9 15 42.17 40.60	16 29 21.6 2 53.7	0.765 2428 9282	8 27.7
	5 9 16 22.77 40.20	16 26 27.9 2 52.3	0.764 3024 9404	8 24.4
	6 9 17 2.97 39.78	16 23 35.6 2 50.9	0.763 3499 9525	8 21.1
	7 9 17 42.75 39.36	16 20 44.7 2 49.4	0.762 3854 9645	8 17.9
	8 9 18 22.11 38.95	16 17 55.3 2 48.0	0.761 4090 9764	8 14.6
	9 9 19 1.06 38.51	+16 15 7.3 2 46.4	0.760 4207 9883	8 11.3
	10 9 19 39.57 38.08	16 12 20.9 2 44.8	0.759 4208 9999	8 8.0
	11 9 20 17.65 37.63	16 9 36.1 2 43.2	0.758 4093 I 0115	8 4.7
	12 9 20 55.28 37.18	16 6 52.9 2 41.4	0.757 3864 I 0229	8 1.4
	13 9 21 32.46 36.72	16 4 11.5 2 39.6	0.756 3521 I 0343	7 58.1
	14 9 22 9.18	+16 1 31.9	0.755 3067 I 0454	7 54.7

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Okt. 14	9 ^h 22 ^m 9.18 ^s 36.25	+16° 1' 31.9" 2' 37.9"	0.755 3067 1 0564	7 ^h 54.7 ^m
15	9 22 45.43 35.79	15 58 54.0 2 35.9	0.754 2503 1 0672	7 51.4
16	9 23 21.22 35.30	15 56 18.1 2 34.1	0.753 1831 1 0779	7 48.1
17	9 23 56.52 34.82	15 53 44.0 2 32.1	0.752 1052 1 0884	7 44.7
18	9 24 31.34 34.33	15 51 11.9 2 30.1	0.751 0168 1 0987	7 41.4
19	9 25 5.67 33.84	15 48 41.8 2 28.1	0.749 9181 1 1089	7 38.0
20	9 25 39.51 33.34	+15 46 13.7 2 26.0	0.748 8092 1 1189	7 34.6
21	9 26 12.85 32.83	15 43 47.7 2 23.9	0.747 6903 1 1288	7 31.2
22	9 26 45.68 32.32	15 41 23.8 2 21.6	0.746 5615 1 1384	7 27.8
23	9 27 18.00 31.80	15 39 2.2 2 19.4	0.745 4231 1 1479	7 24.4
24	9 27 49.80 31.28	15 36 42.8 2 17.2	0.744 2752 1 1572	7 21.0
25	9 28 21.08 30.75	15 34 25.6 2 14.9	0.743 1180 1 1665	7 17.6
26	9 28 51.83 30.21	+15 32 10.7 2 12.4	0.741 9515 1 1755	7 14.2
27	9 29 22.04 29.66	15 29 58.3 2 10.1	0.740 7760 1 1845	7 10.8
28	9 29 51.70 29.12	15 27 48.2 2 7.6	0.739 5915 1 1932	7 7.3
29	9 30 20.82 28.56	15 25 40.6 2 5.2	0.738 3983 1 2017	7 3.8
30	9 30 49.38 28.00	15 23 35.4 2 2.6	0.737 1966 1 2101	7 0.4
31	9 31 17.38 27.42	15 21 32.8 2 0.0	0.735 9865 1 2182	6 56.9
Nov. 1	9 31 44.80 26.85	+15 19 32.8 1 57.3	0.734 7683 1 2261	6 53.5
2	9 32 11.65 26.27	15 17 35.5 1 54.6	0.733 5422 1 2338	6 50.0
3	9 32 37.92 25.67	15 15 40.9 1 51.9	0.732 3084 1 2412	6 46.5
4	9 33 3.59 25.07	15 13 49.0 1 49.1	0.731 0672 1 2486	6 43.0
5	9 33 28.66 24.47	15 11 59.9 1 46.2	0.729 8186 1 2556	6 39.5
6	9 33 53.13 23.85	15 10 13.7 1 43.3	0.728 5630 1 2624	6 35.9
7	9 34 16.98 23.22	+15 8 30.4 1 40.3	0.727 3006 1 2690	6 32.4
8	9 34 40.20 22.60	15 6 50.1 1 37.4	0.726 0316 1 2751	6 28.8
9	9 35 2.80 21.96	15 5 12.7 1 34.3	0.724 7565 1 2810	6 25.3
10	9 35 24.76 21.32	15 3 38.4 1 31.2	0.723 4755 1 2865	6 21.7
11	9 35 46.08 20.67	15 2 7.2 1 28.0	0.722 1890 1 2918	6 18.1
12	9 36 6.75 20.01	15 0 39.2 1 24.8	0.720 8972 1 2967	6 14.5
13	9 36 26.76 19.35	+14 59 14.4 1 21.6	0.719 6005 1 3012	6 10.9
14	9 36 46.11 18.69	14 57 52.8 1 18.4	0.718 2993 1 3054	6 7.3
15	9 37 4.80 18.02	14 56 34.4 1 15.0	0.716 9939 1 3093	6 3.7
16	9 37 22.82 17.34	14 55 19.4 1 11.7	0.715 6846 1 3130	6 0.0
17	9 37 40.16 16.66	14 54 7.7 1 8.4	0.714 3716 1 3161	5 56.4
18	9 37 56.82 15.96	14 52 59.3 1 4.9	0.713 0555 1 3190	5 52.8
19	9 38 12.78 15.28	+14 51 54.4 1 1.5	0.711 7365 1 3216	5 49.1
20	9 38 28.06 14.58	14 50 52.9 0 58.1	0.710 4149 1 3237	5 45.4
21	9 38 42.64 13.88	14 49 54.8 0 54.5	0.709 0912 1 3256	5 41.7
22	9 38 56.52 13.18	14 49 0.3 0 51.0	0.707 7656 1 3271	5 38.0
23	9 39 9.70 12.46	14 48 9.3 0 47.4	0.706 4385 1 3282	5 34.3
24	9 39 22.16	+14 47 21.9	0.705 1103	5 30.6

Tag	0 ^h Welt-Zeit			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Nov. 24	9 39 22.16 ^{h m s} 11.75	+14 47 21.9 ^{° ' "} 0 43.9	0.705 1103 ^I I 3289	5 30.6 ^{h m s}
25	9 39 33.91 ^{h m s} 11.04	14 46 38.0 ^{° ' "} 0 40.3	0.703 7814 ^I I 3293	5 26.8
26	9 39 44.95 ^{h m s} 10.30	14 45 57.7 ^{° ' "} 0 36.7	0.702 4521 ^I I 3293	5 23.1
27	9 39 55.25 ^{h m s} 9.58	14 45 21.0 ^{° ' "} 0 32.9	0.701 1228 ^I I 3289	5 19.3
28	9 40 4.83 ^{h m s} 8.84	14 44 48.1 ^{° ' "} 0 29.3	0.699 7939 ^I I 3281	5 15.5
29	9 40 13.67 ^{h m s} 8.11	14 44 18.8 ^{° ' "} 0 25.5	0.698 4658 ^I I 3270	5 11.7
30	9 40 21.78 ^{h m s} 7.36	+14 43 53.3 ^{° ' "} 0 21.8	0.697 1388 ^I I 3255	5 7.9
Dez. 1	9 40 29.14 ^{h m s} 6.61	14 43 31.5 ^{° ' "} 0 18.0	0.695 8133 ^I I 3233	5 4.1
2	9 40 35.75 ^{h m s} 5.85	14 43 13.5 ^{° ' "} 0 14.2	0.694 4900 ^I I 3209	5 0.3
3	9 40 41.60 ^{h m s} 5.11	14 42 59.3 ^{° ' "} 0 10.4	0.693 1691 ^I I 3178	4 56.5
4	9 40 46.71 ^{h m s} 4.35	14 42 48.9 ^{° ' "} 0 6.5	0.691 8513 ^I I 3144	4 52.6
5	9 40 51.06 ^{h m s} 3.57	14 42 42.4 ^{° ' "} 0 2.6	0.690 5369 ^I I 3104	4 48.7
6	9 40 54.63 ^{h m s} 2.81	+14 42 39.8 ^{° ' "} 0 1.2	0.689 2265 ^I I 3059	4 44.8
7	9 40 57.44 ^{h m s} 2.05	14 42 41.0 ^{° ' "} 0 5.1	0.687 9206 ^I I 3009	4 41.0
8	9 40 59.49 ^{h m s} 1.27	14 42 46.1 ^{° ' "} 0 9.0	0.686 6197 ^I I 2954	4 37.1
9	9 41 0.76 ^{h m s} 0.49	14 42 55.1 ^{° ' "} 0 12.9	0.685 3243 ^I I 2892	4 33.2
10	9 41 1.25 ^{h m s} 0.28	14 43 8.0 ^{° ' "} 0 16.8	0.684 0351 ^I I 2827	4 29.3
11	9 41 0.97 ^{h m s} 1.05	14 43 24.8 ^{° ' "} 0 20.7	0.682 7524 ^I I 2754	4 25.3
12	9 40 59.92 ^{h m s} 1.83	+14 43 45.5 ^{° ' "} 0 24.6	0.681 4770 ^I I 2676	4 21.4
13	9 40 58.09 ^{h m s} 2.59	14 44 10.1 ^{° ' "} 0 28.5	0.680 2094 ^I I 2594	4 17.4
14	9 40 55.50 ^{h m s} 3.37	14 44 38.6 ^{° ' "} 0 32.4	0.678 9500 ^I I 2506	4 13.4
15	9 40 52.13 ^{h m s} 4.13	14 45 11.0 ^{° ' "} 0 36.2	0.677 6994 ^I I 2412	4 9.4
16	9 40 48.00 ^{h m s} 4.91	14 45 47.2 ^{° ' "} 0 40.1	0.676 4582 ^I I 2314	4 5.4
17	9 40 43.09 ^{h m s} 5.67	14 46 27.3 ^{° ' "} 0 43.9	0.675 2268 ^I I 2209	4 1.4
18	9 40 37.42 ^{h m s} 6.43	+14 47 11.2 ^{° ' "} 0 47.6	0.674 0059 ^I I 2098	3 57.4
19	9 40 30.99 ^{h m s} 7.20	14 47 58.8 ^{° ' "} 0 51.4	0.672 7961 ^I I 1984	3 53.3
20	9 40 23.79 ^{h m s} 7.95	14 48 50.2 ^{° ' "} 0 55.1	0.671 5977 ^I I 1863	3 49.3
21	9 40 15.84 ^{h m s} 8.71	14 49 45.3 ^{° ' "} 0 58.8	0.670 4114 ^I I 1736	3 45.2
22	9 40 7.13 ^{h m s} 9.45	14 50 44.1 ^{° ' "} 1 2.5	0.669 2378 ^I I 1606	3 41.1
23	9 39 57.68 ^{h m s} 10.20	14 51 46.6 ^{° ' "} 1 6.2	0.668 0772 ^I I 1468	3 37.0
24	9 39 47.48 ^{h m s} 10.94	+14 52 52.8 ^{° ' "} 1 9.8	0.666 9304 ^I I 1326	3 32.9
25	9 39 36.54 ^{h m s} 11.68	14 54 2.6 ^{° ' "} 1 13.3	0.665 7978 ^I I 1179	3 28.8
26	9 39 24.86 ^{h m s} 12.41	14 55 15.9 ^{° ' "} 1 16.9	0.664 6799 ^I I 1025	3 24.7
27	9 39 12.45 ^{h m s} 13.14	14 56 32.8 ^{° ' "} 1 20.4	0.663 5774 ^I I 0866	3 20.6
28	9 38 59.31 ^{h m s} 13.86	14 57 53.2 ^{° ' "} 1 23.9	0.662 4908 ^I I 0702	3 16.4
29	9 38 45.45 ^{h m s} 14.57	14 59 17.1 ^{° ' "} 1 27.2	0.661 4206 ^I I 0533	3 12.2
30	9 38 30.88 ^{h m s} 15.28	+15 0 44.3 ^{° ' "} 1 30.6	0.660 3673 ^I I 0356	3 8.1
31	9 38 15.60 ^{h m s} 15.99	15 2 14.9 ^{° ' "} 1 34.0	0.659 3317 ^I I 0174	3 3.9
32	9 37 59.61 ^{h m s}	+15 3 48.9 ^{° ' "}	0.658 3143 ^I	2 59.7

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Jan. 0	18 ^h 58 ^m 53.48 ^s	—22° 24' 13.4"	1.041 8956	12 ^h 22.3 ^m
1	18 59 24.03 ^{30.55}	22 23 34.5 ^{38.9}	1.041 9454 ⁴⁹⁸	12 18.9
2	18 59 54.60 ^{30.57}	22 22 55.2 ^{39.3}	1.041 9850 ³⁹⁶	12 15.5
3	19 0 25.18 ^{30.59}	22 22 15.5 ^{39.7}	1.042 0144 ²⁹⁴	12 12.0
4	19 0 55.77 ^{30.60}	22 21 35.4 ^{40.1}	1.042 0336 ¹⁹²	12 8.6
5	19 1 26.37 ^{30.59}	22 20 54.9 ^{40.5}	1.042 0424 ⁸⁸	12 5.2
6	19 1 56.96 ^{30.58}	—22 20 14.0 ^{40.9}	1.042 0410 ¹⁴	12 1.8
7	19 2 27.54 ^{30.58}	22 19 32.8 ^{41.2}	1.042 0292 ¹¹⁸	11 58.3
8	19 2 58.12 ^{30.56}	22 18 51.1 ^{41.7}	1.042 0072 ²²⁰	11 54.9
9	19 3 28.68 ^{30.54}	22 18 9.1 ^{42.0}	1.041 9749 ³²³	11 51.5
10	19 3 59.22 ^{30.51}	22 17 26.7 ^{42.4}	1.041 9324 ⁴²⁵	11 48.1
11	19 4 29.73 ^{30.49}	22 16 44.0 ^{42.7}	1.041 8796 ⁵²⁸	11 44.7
12	19 5 0.22 ^{30.45}	—22 16 0.9 ^{43.1}	1.041 8165 ⁶³¹	11 41.2
13	19 5 30.67 ^{30.41}	22 15 17.4 ^{43.5}	1.041 7431 ⁷³⁴	11 37.8
14	19 6 1.08 ^{30.37}	22 14 33.6 ^{43.8}	1.041 6594 ⁸³⁷	11 34.4
15	19 6 31.45 ^{30.31}	22 13 49.5 ^{44.1}	1.041 5654 ⁹⁴⁰	11 30.9
16	19 7 1.76 ^{30.26}	22 13 5.1 ^{44.4}	1.041 4610 ¹⁰⁴⁴	11 27.5
17	19 7 32.02 ^{30.20}	22 12 20.4 ^{44.7}	1.041 3464 ¹¹⁴⁶	11 24.1
18	19 8 2.22 ^{30.12}	—22 11 35.3 ^{45.1}	1.041 2215 ¹²⁴⁹	11 20.6
19	19 8 32.34 ^{30.06}	22 10 50.0 ^{45.3}	1.041 0863 ¹³⁵²	11 17.2
20	19 9 2.40 ^{29.98}	22 10 4.5 ^{45.5}	1.040 9409 ¹⁴⁵⁴	11 13.8
21	19 9 32.38 ^{29.90}	22 9 18.7 ^{45.8}	1.040 7854 ¹⁵⁵⁵	11 10.3
22	19 10 2.28 ^{29.80}	22 8 32.6 ^{46.1}	1.040 6197 ¹⁶⁵⁷	11 6.9
23	19 10 32.08 ^{29.71}	22 7 46.3 ^{46.3}	1.040 4439 ¹⁷⁵⁸	11 3.5
24	19 11 1.79 ^{29.61}	—22 6 59.8 ^{46.5}	1.040 2579 ¹⁸⁶⁰	11 0.0
25	19 11 31.40 ^{29.51}	22 6 13.1 ^{46.7}	1.040 0618 ¹⁹⁶¹	10 56.6
26	19 12 0.91 ^{29.41}	22 5 26.2 ^{46.9}	1.039 8559 ²⁰⁵⁹	10 53.2
27	19 12 30.32 ^{29.29}	22 4 39.1 ^{47.1}	1.039 6400 ²¹⁵⁹	10 49.7
28	19 12 59.61 ^{29.18}	22 3 51.9 ^{47.2}	1.039 4141 ²²⁵⁹	10 46.3
29	19 13 28.79 ^{29.05}	22 3 4.5 ^{47.4}	1.039 1784 ²³⁵⁷	10 42.8
30	19 13 57.84 ^{28.92}	—22 2 16.9 ^{47.6}	1.038 9329 ²⁴⁵⁵	10 39.4
31	19 14 26.76 ^{28.79}	22 1 29.3 ^{47.7}	1.038 6777 ²⁵⁵²	10 35.9
Febr. 1	19 14 55.55 ^{28.65}	22 0 41.5 ^{47.8}	1.038 4127 ²⁶⁵⁰	10 32.4
2	19 15 24.20 ^{28.52}	21 59 53.7 ^{47.8}	1.038 1381 ²⁷⁴⁶	10 29.0
3	19 15 52.72 ^{28.37}	21 59 5.7 ^{48.0}	1.037 8540 ²⁸⁴¹	10 25.6
4	19 16 21.09 ^{28.22}	21 58 17.7 ^{48.0}	1.037 5604 ²⁹³⁶	10 22.1
5	19 16 49.31 ^{28.06}	—21 57 29.6 ^{48.1}	1.037 2572 ³⁰³²	10 18.6
6	19 17 17.37 ^{27.92}	21 56 41.4 ^{48.2}	1.036 9445 ³¹²⁷	10 15.2
7	19 17 45.29 ^{27.75}	21 55 53.2 ^{48.2}	1.036 6223 ³²²²	10 11.7
8	19 18 13.04 ^{27.58}	21 55 5.0 ^{48.2}	1.036 2907 ³³¹⁶	10 8.2
9	19 18 40.62 ^{27.41}	21 54 16.8 ^{48.3}	1.035 9498 ³⁴⁰⁹	10 4.7
10	19 19 8.03	—21 53 28.5	1.035 5995 ³⁵⁰³	10 1.3

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Febr. 10	19 ^h 19 ^m 8.03 ^s 27.24	—21° 53' 28.5" 48.2	I.035 5995 3595	10 ^h 1.3 ^m
11	19 19 35.27 27.05	21 52 40.3 48.2	I.035 2400 3687	9 57.8
12	19 20 2.32 26.87	21 51 52.1 48.1	I.034 8713 3778	9 54.3
13	19 20 29.19 26.68	21 51 4.0 48.0	I.034 4935 3869	9 50.8
14	19 20 55.87 26.48	21 50 16.0 48.0	I.034 1066 3959	9 47.3
15	19 21 22.35 26.28	21 49 28.0 47.9	I.033 7107 4048	9 43.8
16	19 21 48.63 26.08	—21 48 40.1 47.8	I.033 3059 4137	9 40.3
17	19 22 14.71 25.87	21 47 52.3 47.7	I.032 8922 4225	9 36.8
18	19 22 40.58 25.65	21 47 4.6 47.5	I.032 4697 4313	9 33.3
19	19 23 6.23 25.42	21 46 17.1 47.3	I.032 0384 4398	9 29.8
20	19 23 31.65 25.20	21 45 29.8 47.1	I.031 5986 4484	9 26.3
21	19 23 56.85 24.97	21 44 42.7 46.9	I.031 1502 4567	9 22.8
22	19 24 21.82 24.74	—21 43 55.8 46.7	I.030 6935 4651	9 19.2
23	19 24 46.56 24.50	21 43 9.1 46.5	I.030 2284 4732	9 15.7
24	19 25 11.06 24.25	21 42 22.6 46.3	I.029 7552 4814	9 12.2
25	19 25 35.31 24.00	21 41 36.3 45.9	I.029 2738 4895	9 8.7
26	19 25 59.31 23.76	21 40 50.4 45.7	I.028 7843 4974	9 5.1
27	19 26 23.07 23.50	21 40 4.7 45.4	I.028 2869 5051	9 1.6
28	19 26 46.57 23.24	—21 39 19.3 45.1	I.027 7818 5129	8 58.1
März 1	19 27 9.81 22.98	21 38 34.2 44.7	I.027 2689 5206	8 54.5
2	19 27 32.79 22.71	21 37 49.5 44.4	I.026 7483 5280	8 50.9
3	19 27 55.50 22.45	21 37 5.1 44.0	I.026 2203 5355	8 47.4
4	19 28 17.95 22.17	21 36 21.1 43.7	I.025 6848 5428	8 43.8
5	19 28 40.12 21.89	21 35 37.4 43.3	I.025 1420 5500	8 40.3
6	19 29 2.01 21.61	—21 34 54.1 42.9	I.024 5920 5570	8 36.7
7	19 29 23.62 21.33	21 34 11.2 42.5	I.024 0350 5642	8 33.1
8	19 29 44.95 21.03	21 33 28.7 42.0	I.023 4708 5711	8 29.5
9	19 30 5.98 20.75	21 32 46.7 41.5	I.022 8997 5779	8 25.9
10	19 30 26.73 20.45	21 32 5.2 41.1	I.022 3218 5847	8 22.3
11	19 30 47.18 20.14	21 31 24.1 40.7	I.021 7371 5913	8 18.7
12	19 31 7.32 19.84	—21 30 43.4 40.1	I.021 1458 5978	8 15.1
13	19 31 27.16 19.54	21 30 3.3 39.6	I.020 5480 6042	8 11.5
14	19 31 46.70 19.22	21 29 23.7 39.1	I.019 9438 6104	8 7.9
15	19 32 5.92 18.90	21 28 44.6 38.5	I.019 3334 6165	8 4.3
16	19 32 24.82 18.58	21 28 6.1 37.9	I.018 7169 6225	8 0.7
17	19 32 43.40 18.24	21 27 28.2 37.4	I.018 0944 6284	7 57.1
18	19 33 1.64 17.92	—21 26 50.8 36.8	I.017 4660 6347	7 53.5
19	19 33 19.56 17.58	21 26 14.0 36.2	I.016 8319 6397	7 49.8
20	19 33 37.14 17.25	21 25 37.8 35.5	I.016 1922 6451	7 46.2
21	19 33 54.39 16.91	21 25 2.3 34.8	I.015 5471 6503	7 42.6
22	19 34 11.30 16.56	21 24 27.5 34.2	I.014 8968 6555	7 38.9
23	19 34 27.86	—21 23 53.3	I.014 2413	7 35.2

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
März 23	19 ^h 34 ^m 27.86 16.21	—21° 23' 53.3" 33.6	1.014 2413 6604	7 ^h 35.2 ^m
24	19 34 44.07 15.86	21 23 19.7 32.8	1.013 5809 6651	7 31.6
25	19 34 59.93 15.51	21 22 46.9 32.2	1.012 9158 6697	7 27.9
26	19 35 15.44 15.15	21 22 14.7 31.4	1.012 2461 6742	7 24.2
27	19 35 30.59 14.80	21 21 43.3 30.6	1.011 5719 6784	7 20.5
28	19 35 45.39 14.43	21 21 12.7 29.9	1.010 8935 6826	7 16.8
29	19 35 59.82 14.07	—21 20 42.8 29.2	1.010 2109 6866	7 13.1
30	19 36 13.89 13.70	21 20 13.6 28.3	1.009 5243 6904	7 9.4
31	19 36 27.59 13.33	21 19 45.3 27.6	1.008 8339 6940	7 5.7
April 1	19 36 40.92 12.96	21 19 17.7 26.8	1.008 1399 6975	7 2.0
2	19 36 53.88 12.59	21 18 50.9 26.0	1.007 4424 7008	6 58.3
3	19 37 6.47 12.21	21 18 24.9 25.2	1.006 7416 7040	6 54.6
4	19 37 18.68 11.84	—21 17 59.7 24.4	1.006 0376 7071	6 50.9
5	19 37 30.52 11.45	21 17 35.3 23.5	1.005 3305 7100	6 47.1
6	19 37 41.97 11.07	21 17 11.8 22.6	1.004 6205 7127	6 43.4
7	19 37 53.04 10.68	21 16 49.2 21.8	1.003 9078 7152	6 39.6
8	19 38 3.72 10.30	21 16 27.4 21.0	1.003 1926 7176	6 35.8
9	19 38 14.02 9.90	21 16 6.4 20.0	1.002 4750 7198	6 32.1
10	19 38 23.92 9.50	—21 15 46.4 19.2	1.001 7552 7217	6 28.3
11	19 38 33.42 9.12	21 15 27.2 18.2	1.001 0335 7236	6 24.6
12	19 38 42.54 8.71	21 15 9.0 17.4	1.000 3099 7252	6 20.8
13	19 38 51.25 8.31	21 14 51.6 16.4	0.999 5847 7266	6 17.0
14	19 38 59.56 7.91	21 14 35.2 15.4	0.998 8581 7279	6 13.2
15	19 39 7.47 7.50	21 14 19.8 14.5	0.998 1302 7290	6 9.4
16	19 39 14.97 7.10	—21 14 5.3 13.7	0.997 4012 7298	6 5.6
17	19 39 22.07 6.68	21 13 51.6 12.6	0.996 6714 7304	6 1.8
18	19 39 28.75 6.28	21 13 39.0 11.6	0.995 9410 7308	5 57.9
19	19 39 35.03 5.86	21 13 27.4 10.6	0.995 2102 7310	5 54.1
20	19 39 40.89 5.45	21 13 16.8 9.7	0.994 4792 7308	5 50.3
21	19 39 46.34 5.04	21 13 7.1 8.7	0.993 7484 7306	5 46.4
22	19 39 51.38 4.62	—21 12 58.4 7.7	0.993 0178 7301	5 42.6
23	19 39 56.00 4.21	21 12 50.7 6.7	0.992 2877 7294	5 38.7
24	19 40 0.21 3.80	21 12 44.0 5.6	0.991 5583 7285	5 34.9
25	19 40 4.01 3.38	21 12 38.4 4.7	0.990 8298 7273	5 31.0
26	19 40 7.39 2.97	21 12 33.7 3.7	0.990 1025 7260	5 27.1
27	19 40 10.36 2.56	21 12 30.0 2.7	0.989 3765 7244	5 23.2
28	19 40 12.92 2.14	—21 12 27.3 1.6	0.988 6521 7227	5 19.3
29	19 40 15.06 1.73	21 12 25.7 0.7	0.987 9294 7207	5 15.4
30	19 40 16.79 1.32	21 12 25.0 0.3	0.987 2087 7186	5 11.5
Mai 1	19 40 18.11 0.90	21 12 25.3 1.4	0.986 4901 7161	5 7.6
2	19 40 19.01 0.50	21 12 26.7 2.3	0.985 7740 7135	5 3.7
3	19 40 19.51	—21 12 29.0	0.985 0605	4 59.8

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Mai				
3	19 ^h 40 ^m 19.51 0.08	—21° 12' 29.0"	0.985 0605	4 ^h 59.8
4	19 40 19.59 0.34	21 12 32.4 3.4	0.984 3497	4 55.8
5	19 40 19.25 0.74	21 12 36.7 4.3	0.983 6419	4 51.9
6	19 40 18.51 1.16	21 12 42.1 5.4	0.982 9373	4 48.0
7	19 40 17.35 1.57	21 12 48.4 6.3	0.982 2362	4 44.0
8	19 40 15.78 1.98	21 12 55.8 7.4	0.981 5387	4 40.1
9	19 40 13.80 2.39	—21 13 4.2 9.4	0.980 8451	4 36.1
10	19 40 11.41 2.80	21 13 13.6 10.3	0.980 1556	4 32.1
11	19 40 8.61 3.20	21 13 23.9 11.4	0.979 4703	4 28.1
12	19 40 5.41 3.61	21 13 35.3 12.3	0.978 7896	4 24.1
13	19 40 1.80 4.02	21 13 47.6 13.3	0.978 1138	4 20.1
14	19 39 57.78 4.42	21 14 0.9 14.3	0.977 4431	4 16.2
15	19 39 53.36 4.82	—21 14 15.2 15.3	0.976 7777	4 12.2
16	19 39 48.54 5.22	21 14 30.5 16.2	0.976 1178	4 8.1
17	19 39 43.32 5.62	21 14 46.7 17.2	0.975 4637	4 4.1
18	19 39 37.70 6.00	21 15 3.9 18.1	0.974 8156	4 0.1
19	19 39 31.70 6.40	21 15 22.0 19.1	0.974 1738	3 56.1
20	19 39 25.30 6.78	21 15 41.1 20.0	0.973 5384	3 52.0
21	19 39 18.52 7.16	—21 16 1.1 21.0	0.972 9098	3 48.0
22	19 39 11.36 7.55	21 16 22.1 21.8	0.972 2882	3 43.9
23	19 39 3.81 7.92	21 16 43.9 22.7	0.971 6738	3 39.9
24	19 38 55.89 8.29	21 17 6.6 23.6	0.971 0669	3 35.8
25	19 38 47.60 8.66	21 17 30.2 24.4	0.970 4676	3 31.7
26	19 38 38.94 9.03	21 17 54.6 25.3	0.969 8762	3 27.7
27	19 38 29.91 9.38	—21 18 19.9 26.2	0.969 2928	3 23.6
28	19 38 20.53 9.73	21 18 46.1 27.0	0.968 7177	3 19.5
29	19 38 10.80 10.08	21 19 13.1 27.7	0.968 1511	3 15.4
30	19 38 0.72 10.42	21 19 40.8 28.6	0.967 5931	3 11.3
31	19 37 50.30 10.76	21 20 9.4 29.4	0.967 0441	3 7.2
Juni				
1	19 37 39.54 11.10	21 20 38.8 30.1	0.966 5040	3 3.1
2	19 37 28.44 11.42	—21 21 8.9 30.8	0.965 9732	2 59.0
3	19 37 17.02 11.76	21 21 39.7 31.6	0.965 4518	2 54.8
4	19 37 5.26 12.08	21 22 11.3 32.3	0.964 9400	2 50.7
5	19 36 53.18 12.40	21 22 43.6 33.0	0.964 4381	2 46.6
6	19 36 40.78 12.70	21 23 16.6 33.6	0.963 9463	2 42.4
7	19 36 28.08 13.02	21 23 50.2 34.3	0.963 4648	2 38.3
8	19 36 15.06 13.31	—21 24 24.5 35.0	0.962 9938	2 34.1
9	19 36 1.75 13.61	21 24 59.5 35.6	0.962 5335	2 30.0
10	19 35 48.14 13.89	21 25 35.1 36.2	0.962 0839	2 25.8
11	19 35 34.25 14.17	21 26 11.3 36.8	0.961 6453	2 21.7
12	19 35 20.08 14.45	21 26 48.1 37.4	0.961 2181	2 17.5
13	19 35 5.63	—21 27 25.5	0.960 8022	2 13.3

Tag		O ^h Welt-Zeit			Obere Kul- mination in Green- wich	
		Scheinbare Rektaszension	Scheinbare Deklination	log Δ		
1931						
Juni	13	19 ^h 35 ^m 5.63 ^s 14.72	—21° 27' 25.5" 37.9	0.960 8022 4044	2 ^h 13.3 ^m	
	14	19 34 50.91 ^s 14.98	21 28 3.4 38.5	0.960 3978 3925	2 9.2	
	15	19 34 35.93 ^s 15.22	21 28 41.9 38.9	0.960 0053 3804	2 5.0	
	16	19 34 20.71 ^s 15.48	21 29 20.8 39.5	0.959 6249 3683	2 0.8	
	17	19 34 5.23 ^s 15.72	21 30 0.3 39.9	0.959 2566 3559	1 56.6	
	18	19 33 49.51 ^s 15.94	21 30 40.2 40.4	0.958 9007 3434	1 52.4	
	19	19 33 33.57 ^s 16.16	—21 31 20.6 40.8	0.958 5573 3308	1 48.2	
	20	19 33 17.41 ^s 16.37	21 32 1.4 41.3	0.958 2265 3181	1 44.0	
	21	19 33 1.04 ^s 16.58	21 32 42.7 41.5	0.957 9084 3052	1 39.8	
	22	19 32 44.46 ^s 16.77	21 33 24.2 41.9	0.957 6032 2922	1 35.6	
	23	19 32 27.69 ^s 16.96	21 34 6.1 42.3	0.957 3110 2791	1 31.4	
	24	19 32 10.73 ^s 17.14	21 34 48.4 42.5	0.957 0319 2659	1 27.2	
	25	19 31 53.59 ^s 17.31	—21 35 30.9 42.9	0.956 7660 2525	1 23.0	
	26	19 31 36.28 ^s 17.47	21 36 13.8 43.1	0.956 5135 2391	1 18.7	
	27	19 31 18.81 ^s 17.62	21 36 56.9 43.3	0.956 2744 2257	1 14.5	
	28	19 31 1.19 ^s 17.77	21 37 40.2 43.6	0.956 0487 2120	1 10.3	
	29	19 30 43.42 ^s 17.90	21 38 23.8 43.7	0.955 8367 1984	1 6.1	
	30	19 30 25.52 ^s 18.03	21 39 7.5 43.9	0.955 6383 1847	1 1.8	
	Juli	1	19 30 7.49 ^s 18.15	—21 39 51.4 44.0	0.955 4536 1709	0 57.6
		2	19 29 49.34 ^s 18.26	21 40 35.4 44.2	0.955 2827 1569	0 53.4
		3	19 29 31.08 ^s 18.36	21 41 19.6 44.2	0.954 1258 1430	0 49.2
		4	19 29 12.72 ^s 18.46	21 42 3.8 44.4	0.954 9828 1289	0 44.9
		5	19 28 54.26 ^s 18.54	21 42 48.2 44.4	0.954 8539 1148	0 40.7
		6	19 28 35.72 ^s 18.62	21 43 32.6 44.5	0.954 7391 1006	0 36.4
		7	19 28 17.10 ^s 18.68	—21 44 17.1 44.5	0.954 6385 864	0 32.2
		8	19 27 58.42 ^s 18.74	21 45 1.6 44.5	0.954 5521 721	0 28.0
		9	19 27 39.68 ^s 18.79	21 45 46.1 44.6	0.954 4800 578	0 23.7
		10	19 27 20.89 ^s 18.83	21 46 30.7 44.4	0.954 4222 433	0 19.5
		11	19 27 2.06 ^s 18.85	21 47 15.1 44.4	0.954 3789 290	0 15.2
		12	19 26 43.21 ^s 18.87	21 47 59.5 44.3	0.954 3499 146	0 11.0
13		19 26 24.34 ^s 18.88	—21 48 43.8 44.2	0.954 3353 0	0 6.7	
14		19 26 5.46 ^s 18.88	21 49 28.0 44.0	0.954 3353 144	{ 0 2.5 23 58.2 }	
15		19 25 46.58 ^s 18.87	21 50 12.0 43.9	0.954 3497 289	23 54.0	
16		19 25 27.71 ^s 18.84	21 50 55.9 43.8	0.954 3786 434	23 49.8	
17		19 25 8.87 ^s 18.81	21 51 39.7 43.6	0.954 4220 578	23 45.5	
18		19 24 50.06 ^s 18.77	21 52 23.3 43.4	0.954 4798 723	23 41.3	
19		19 24 31.29 ^s 18.72	—21 53 6.7 43.1	0.954 5521 866	23 37.0	
20		19 24 12.57 ^s 18.65	21 53 49.8 42.9	0.954 6387 1008	23 32.8	
21		19 23 53.92 ^s 18.58	21 54 32.7 42.6	0.954 7395 1151	23 28.5	
22		19 23 35.34 ^s 18.50	21 55 15.3 42.3	0.954 8546 1293	23 24.3	
23		19 23 16.84 ^s 18.41	21 55 57.6 42.1	0.954 9839 1433	23 20.1	
24		19 22 58.43 ^s	—21 56 39.7	0.955 1272	23 15.8	

Tag	O ^b Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juli 24	19 ^h 22 ^m 58.43 ^s 18.30	—21° 56' 39.7" 41.7	0.955 1272 1574	23 ^h 15.8 ^m
25	19 22 40.13 18.19	21 57 21.4 41.3	0.955 2846 1713	23 11.6
26	19 22 21.94 18.09	21 58 2.7 41.1	0.955 4559 1850	23 7.4
27	19 22 3.85 17.95	21 58 43.8 40.7	0.955 6409 1988	23 3.1
28	19 21 45.90 17.81	21 59 24.5 40.3	0.955 8397 2124	22 58.9
29	19 21 28.09 17.68	22 0 4.8 39.8	0.956 0521 2261	22 54.7
30	19 21 10.41 17.53	—22 0 44.6 39.5	0.956 2782 2395	22 50.5
31	19 20 52.88 17.36	22 1 24.1 39.0	0.956 5177 2529	22 46.2
Aug. 1	19 20 35.52 17.19	22 2 3.1 38.6	0.956 7706 2663	22 42.0
2	19 20 18.33 17.01	22 2 41.7 38.1	0.957 0369 2793	22 37.8
3	19 20 1.32 16.83	22 3 19.8 37.7	0.957 3162 2924	22 33.6
4	19 19 44.49 16.64	22 3 57.5 37.2	0.957 6086 3054	22 29.4
5	19 19 27.85 16.43	—22 4 34.7 36.7	0.957 9140 3181	22 25.2
6	19 19 11.42 16.23	22 5 11.4 36.2	0.958 2321 3309	22 21.0
7	19 18 55.19 16.00	22 5 47.6 35.7	0.958 5630 3435	22 16.8
8	19 18 39.19 15.78	22 6 23.3 35.1	0.958 9065 3559	22 12.6
9	19 18 23.41 15.54	22 6 58.4 34.7	0.959 2624 3683	22 8.4
10	19 18 7.87 15.29	22 7 33.1 34.1	0.959 6307 3804	22 4.2
11	19 17 52.58 15.04	—22 8 7.2 33.5	0.960 0111 3925	22 0.1
12	19 17 37.54 14.79	22 8 40.7 33.0	0.960 4036 4043	21 55.9
13	19 17 22.75 14.51	22 9 13.7 32.4	0.960 8079 4160	21 51.7
14	19 17 8.24 14.24	22 9 46.1 31.8	0.961 2239 4275	21 47.5
15	19 16 54.00 13.96	22 10 17.9 31.2	0.961 6514 4388	21 43.4
16	19 16 40.04 13.67	22 10 49.1 30.6	0.962 0902 4498	21 39.2
17	19 16 26.37 13.37	—22 11 19.7 30.0	0.962 5400 4608	21 35.1
18	19 16 13.00 13.06	22 11 49.7 29.3	0.963 0008 4714	21 30.9
19	19 15 59.94 12.76	22 12 19.0 28.8	0.963 4722 4820	21 26.8
20	19 15 47.18 12.43	22 12 47.8 28.0	0.963 9542 4921	21 22.6
21	19 15 34.75 12.11	22 13 15.8 27.4	0.964 4463 5023	21 18.5
22	19 15 22.64 11.78	22 13 43.2 26.8	0.964 9486 5120	21 14.3
23	19 15 10.86 11.46	—22 14 10.0 26.2	0.965 4606 5217	21 10.2
24	19 14 59.40 11.11	22 14 36.2 25.4	0.965 9823 5311	21 6.1
25	19 14 48.29 10.77	22 15 1.6 24.8	0.966 5134 5403	21 2.0
26	19 14 37.52 10.43	22 15 26.4 24.1	0.967 0537 5493	20 57.9
27	19 14 27.09 10.07	22 15 50.5 23.4	0.967 6030 5581	20 53.8
28	19 14 17.02 9.72	22 16 13.9 22.8	0.968 1611 5667	20 49.7
29	19 14 7.30 9.36	—22 16 36.7 22.0	0.968 7278 5752	20 45.6
30	19 13 57.94 8.99	22 16 58.7 21.4	0.969 3030 5834	20 41.5
31	19 13 48.95 8.62	22 17 20.1 20.6	0.969 8864 5912	20 37.4
Sept. 1	19 13 40.33 8.25	22 17 40.7 20.0	0.970 4776 5991	20 33.4
2	19 13 32.08 7.87	22 18 0.7 19.2	0.971 0767 6065	20 29.3
3	19 13 24.21	—22 18 19.9	0.971 6832	20 25.3

Tag	0 ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Sept. 3	19 ^h 13 ^m 24.21 ^s 7.48	—22° 18' 19.9" 18.6	0.971 6832 6140	20 ^h 25.3 ^m
4	19 13 16.73 7.10	22 18 38.5 17.9	0.972 2972 6210	20 21.2
5	19 13 9.63 6.71	22 18 56.4 17.2	0.972 9182 6280	20 17.2
6	19 13 2.92 6.32	22 19 13.6 16.4	0.973 5462 6346	20 13.1
7	19 12 56.60 5.92	22 19 30.0 15.8	0.974 1808 6412	20 9.1
8	19 12 50.68 5.52	22 19 45.8 15.0	0.974 8220 6474	20 5.1
9	19 12 45.16 5.12	—22 20 0.8 14.3	0.975 4694 6534	20 1.1
10	19 12 40.04 4.71	22 20 15.1 13.6	0.976 1228 6592	19 57.1
11	19 12 35.33 4.30	22 20 28.7 12.8	0.976 7820 6647	19 53.1
12	19 12 31.03 3.88	22 20 41.5 12.1	0.977 4467 6700	19 49.1
13	19 12 27.15 3.47	22 20 53.6 11.4	0.978 1167 6750	19 45.1
14	19 12 23.68 3.05	22 21 5.0 10.6	0.978 7917 6798	19 41.1
15	19 12 20.63 2.63	—22 21 15.6 9.9	0.979 4715 6843	19 37.1
16	19 12 18.00 2.21	22 21 25.5 9.2	0.980 1558 6886	19 33.1
17	19 12 15.79 1.79	22 21 34.7 8.4	0.980 8444 6927	19 29.2
18	19 12 14.00 1.37	22 21 43.1 7.7	0.981 5371 6964	19 25.2
19	19 12 12.63 0.95	22 21 50.8 6.8	0.982 2335 7000	19 21.3
20	19 12 11.68 0.52	22 21 57.6 6.1	0.982 9335 7034	19 17.3
21	19 12 11.16 0.09	—22 22 3.7 5.4	0.983 6369 7064	19 13.4
22	19 12 11.07 0.33	22 22 9.1 4.6	0.984 3433 7093	19 9.5
23	19 12 11.40 0.75	22 22 13.7 3.9	0.985 0526 7119	19 5.5
24	19 12 12.15 1.17	22 22 17.6 3.2	0.985 7645 7144	19 1.6
25	19 12 13.32 1.60	22 22 20.8 2.4	0.986 4789 7166	18 57.7
26	19 12 14.92 2.03	22 22 23.2 1.6	0.987 1955 7185	18 53.8
27	19 12 16.95 2.45	—22 22 24.8 0.9	0.987 9140 7204	18 49.9
28	19 12 19.40 2.87	22 22 25.7 0.2	0.988 6344 7219	18 46.0
29	19 12 22.27 3.30	22 22 25.9 0.6	0.989 3563 7233	18 42.2
30	19 12 25.57 3.72	22 22 25.3 1.4	0.990 0796 7245	18 38.3
Okt. 1	19 12 29.29 4.14	22 22 23.9 2.1	0.990 8041 7254	18 34.4
2	19 12 33.43 4.57	22 22 21.8 2.9	0.991 5295 7263	18 30.6
3	19 12 38.00 4.99	—22 22 18.9 3.6	0.992 2558 7268	18 26.7
4	19 12 42.99 5.41	22 22 15.3 4.4	0.992 9826 7272	18 22.9
5	19 12 48.40 5.83	22 22 10.9 5.2	0.993 7098 7274	18 19.0
6	19 12 54.23 6.25	22 22 5.7 5.9	0.994 4372 7272	18 15.2
7	19 13 0.48 6.67	22 21 59.8 6.6	0.995 1644 7271	18 11.4
8	19 13 7.15 7.09	22 21 53.2 7.4	0.995 8915 7265	18 7.6
9	19 13 14.24 7.50	—22 21 45.8 8.2	0.996 6180 7258	18 3.8
10	19 13 21.74 7.92	22 21 37.6 9.0	0.997 3438 7249	18 0.0
11	19 13 29.66 8.34	22 21 28.6 9.7	0.998 0687 7238	17 56.2
12	19 13 38.00 8.75	22 21 18.9 10.5	0.998 7925 7224	17 52.4
13	19 13 46.75 9.16	22 21 8.4 11.2	0.999 5149 7208	17 48.6
14	19 13 55.91	—22 20 57.2	1.000 2357	17 44.8

Tag	O ^h Welt-Zeit			Obere K ^u l- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Okt. 14	19 13 55.91 9.56	—22 20 57.2 12.1	1.000 2357 7189	17 44.8
15	19 14 5.47 9.98	22 20 45.1 12.8	1.000 9546 7171	17 41.0
16	19 14 15.45 10.38	22 20 32.3 13.6	1.001 6717 7149	17 37.3
17	19 14 25.83 10.78	22 20 18.7 14.4	1.002 3866 7125	17 33.5
18	19 14 36.61 11.17	22 20 4.3 15.1	1.003 0991 7099	17 29.8
19	19 14 47.78 11.56	22 19 49.2 15.9	1.003 8090 7073	17 26.1
20	19 14 59.34 11.96	—22 19 33.3 16.7	1.004 5163 7042	17 22.3
21	19 15 11.30 12.35	22 19 16.6 17.5	1.005 2205 7012	17 18.6
22	19 15 23.65 12.73	22 18 59.1 18.2	1.005 9217 6979	17 14.9
23	19 15 36.38 13.11	22 18 40.9 19.0	1.006 6196 6945	17 11.1
24	19 15 49.49 13.49	22 18 21.9 19.8	1.007 3141 6909	17 7.4
25	19 16 2.98 13.87	22 18 2.1 20.5	1.008 0050 6871	17 3.7
26	19 16 16.85 14.23	—22 17 41.6 21.3	1.008 6921 6833	17 0.0
27	19 16 31.08 14.61	22 17 20.3 22.1	1.009 3754 6792	16 56.3
28	19 16 45.69 14.97	22 16 58.2 22.8	1.010 0546 6751	16 52.7
29	19 17 0.66 15.33	22 16 35.4 23.6	1.010 7297 6707	16 49.0
30	19 17 15.99 15.69	22 16 11.8 24.4	1.011 4004 6662	16 45.3
31	19 17 31.68 16.05	22 15 47.4 25.2	1.012 0666 6616	16 41.6
Nov. 1	19 17 47.73 16.40	—22 15 22.2 25.9	1.012 7282 6567	16 38.0
2	19 18 4.13 16.75	22 14 56.3 26.7	1.013 3849 6518	16 34.3
3	19 18 20.88 17.09	22 14 29.6 27.4	1.014 0367 6467	16 30.7
4	19 18 37.97 17.44	22 14 2.2 28.2	1.014 6834 6415	16 27.0
5	19 18 55.41 17.78	22 13 34.0 29.0	1.015 3249 6361	16 23.4
6	19 19 13.19 18.12	22 13 5.0 29.8	1.015 9610 6306	16 19.7
7	19 19 31.31 18.46	—22 12 35.2 30.6	1.016 5916 6248	16 16.1
8	19 19 49.77 18.78	22 12 4.6 31.4	1.017 2164 6189	16 12.5
9	19 20 8.55 19.11	22 11 33.2 32.1	1.017 8353 6129	16 8.9
10	19 20 27.66 19.44	22 11 1.1 32.9	1.018 4482 6067	16 5.3
11	19 20 47.10 19.74	22 10 28.2 33.6	1.019 0549 6004	16 1.7
12	19 21 6.84 20.06	22 9 54.6 34.4	1.019 6553 5940	15 58.1
13	19 21 26.90 20.36	—22 9 20.2 35.2	1.020 2493 5873	15 54.5
14	19 21 47.26 20.67	22 8 45.0 36.0	1.020 8366 5807	15 50.9
15	19 22 7.93 20.96	22 8 9.0 36.8	1.021 4173 5737	15 47.3
16	19 22 28.89 21.25	22 7 32.2 37.6	1.021 9910 5668	15 43.7
17	19 22 50.14 21.55	22 6 54.6 38.2	1.022 5578 5597	15 40.1
18	19 23 11.69 21.83	22 6 16.4 39.0	1.023 1175 5526	15 36.6
19	19 23 33.52 22.11	—22 5 37.4 39.8	1.023 6701 5453	15 33.0
20	19 23 55.63 22.38	22 4 57.6 40.6	1.024 2154 5379	15 29.4
21	19 24 18.01 22.65	22 4 17.0 41.3	1.024 7533 5305	15 25.9
22	19 24 40.66 22.91	22 3 35.7 42.0	1.025 2838 5229	15 22.3
23	19 25 3.57 23.18	22 2 53.7 42.8	1.025 8067 5153	15 18.8
24	19 25 26.75	—22 2 10.9	1.026 3220	15 15.2

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Nov. 24	19 ^h 25 ^m 26.75 ^s 23.43	—22° 2' 10.9" 43.5	I.026 3220 5076	15 ^h 15.2 ^m
25	19 25 50.18 23.68	22 1 27.4 44.2	I.026 8296 4996	15 11.7
26	19 26 13.86 23.92	22 0 43.2 45.0	I.027 3292 4918	15 8.1
27	19 26 37.78 24.17	21 59 58.2 45.7	I.027 8210 4837	15 4.6
28	19 27 1.95 24.42	21 59 12.5 46.4	I.028 3047 4756	15 1.1
29	19 27 26.37 24.64	21 58 26.1 47.2	I.028 7803 4674	14 57.6
30	19 27 51.01 24.88	—21 57 38.9 48.0	I.029 2477 4591	14 54.0
Dez. 1	19 28 15.89 25.10	21 56 50.9 48.6	I.029 7068 4509	14 50.5
2	19 28 40.99 25.33	21 56 2.3 49.4	I.030 1577 4423	14 47.0
3	19 29 6.32 25.54	21 55 12.9 50.0	I.030 6000 4337	14 43.5
4	19 29 31.86 25.75	21 54 22.9 50.8	I.031 0337 4252	14 40.0
5	19 29 57.61 25.96	21 53 32.1 51.5	I.031 4589 4164	14 36.5
6	19 30 23.57 26.16	—21 52 40.6 52.2	I.031 8753 4076	14 33.0
7	19 30 49.73 26.37	21 51 48.4 52.9	I.032 2829 3986	14 29.5
8	19 31 16.10 26.55	21 50 55.5 53.6	I.032 6815 3896	14 26.0
9	19 31 42.65 26.75	21 50 1.9 54.4	I.033 0711 3805	14 22.5
10	19 32 9.40 26.92	21 49 7.5 55.0	I.033 4516 3713	14 19.0
11	19 32 36.32 27.10	21 48 12.5 55.6	I.033 8229 3621	14 15.5
12	19 33 3.42 27.28	—21 47 16.9 56.4	I.034 1850 3528	14 12.1
13	19 33 30.70 27.44	21 46 20.5 57.0	I.034 5378 3434	14 8.6
14	19 33 58.14 27.60	21 45 23.5 57.7	I.034 8812 3340	14 5.1
15	19 34 25.74 27.76	21 44 25.8 58.3	I.035 2152 3244	14 1.7
16	19 34 53.50 27.90	21 43 27.5 59.0	I.035 5396 3150	13 58.2
17	19 35 21.40 28.05	21 42 28.5 59.6	I.035 8546 3054	13 54.7
18	19 35 49.45 28.19	—21 41 28.9 60.3	I.036 1600 2957	13 51.2
19	19 36 17.64 28.33	21 40 28.6 60.8	I.036 4557 2861	13 47.8
20	19 36 45.97 28.45	21 39 27.8 61.5	I.036 7418 2764	13 44.3
21	19 37 14.42 28.58	21 38 26.3 62.1	I.037 0182 2666	13 40.9
22	19 37 43.00 28.71	21 37 24.2 62.7	I.037 2848 2569	13 37.4
23	19 38 11.71 28.81	21 36 21.5 63.3	I.037 5417 2472	13 33.9
24	19 38 40.52 28.93	—21 35 18.2 63.9	I.037 7889 2373	13 30.5
25	19 39 9.45 29.03	21 34 14.3 64.5	I.038 0262 2275	13 27.0
26	19 39 38.48 29.13	21 33 9.8 65.0	I.038 2537 2175	13 23.6
27	19 40 7.61 29.23	21 32 4.8 65.5	I.038 4712 2076	13 20.1
28	19 40 36.84 29.32	21 30 59.3 66.1	I.038 6788 1977	13 16.7
29	19 41 6.16 29.42	21 29 53.2 66.7	I.038 8765 1877	13 13.3
30	19 41 35.58 29.50	—21 28 46.5 67.2	I.039 0642 1776	13 9.8
31	19 42 5.08 29.57	21 27 39.3 67.7	I.039 2418 1675	13 6.4
32	19 42 34.65	—21 26 31.6	I.039 4093	13 2.9

Tag	O ^b Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Jan. -1	^h 43 ^m 14.36 ^s 7.85	+3 55 29.9 ^s 0.1	1.299 2490 ^s 4979	18 ^h 9.4
+3	43 22.21 10.88	3 56 30.0 1 19.3	1.300 7469 1 4927	17 53.8
7	43 33.09 13.87	3 57 49.3 1 38.1	1.302 2396 1 4802	17 38.3
11	43 46.96 16.82	3 59 27.4 1 56.7	1.303 7198 1 4611	17 22.8
15	44 3.78 19.73	4 1 24.1 2 14.9	1.305 1809 1 4352	17 7.4
19	44 23.51 22.55	4 3 39.0 2 32.6	1.306 6161 1 4020	16 52.0
23	44 46.06 25.27	+4 6 11.6 2 49.5	1.308 0181 1 3627	16 36.6
27	45 11.33 27.89	4 9 1.1 3 5.9	1.309 3808 1 3175	16 21.3
31	45 39.22 30.38	4 12 7.0 3 21.0	1.310 6983 1 2670	16 6.1
Febr. 4	46 9.60 32.76	4 15 28.0 3 35.6	1.311 9653 1 2119	15 50.9
8	46 42.36 35.03	4 19 3.6 3 49.6	1.313 1772 1 1516	15 35.7
12	47 17.39 37.17	4 22 53.2 4 2.6	1.314 3288 1 0867	15 20.5
16	47 54.56 39.18	+4 26 55.8 4 14.7	1.315 4155 1 0183	15 5.4
20	48 33.74 41.04	4 31 10.5 4 25.6	1.316 4338 9442	14 50.4
24	49 14.78 42.72	4 35 36.1 4 35.7	1.317 3780 8678	14 35.3
28	49 57.50 44.24	4 40 11.8 4 44.4	1.318 2458 7885	14 20.3
März 4	50 41.74 45.62	4 44 56.2 4 52.5	1.319 0343 7071	14 5.3
8	51 27.36 46.86	4 49 48.7 4 59.4	1.319 7414 6230	13 50.3
12	52 14.22 47.93	+4 54 48.1 5 5.4	1.320 3644 5371	13 35.4
16	53 2.15 48.84	4 59 53.5 5 10.2	1.320 9015 4487	13 20.5
20	53 50.99 49.58	5 5 3.7 5 14.0	1.321 3502 3594	13 5.6
24	54 40.57 50.14	5 10 17.7 5 16.7	1.321 7096 2688	12 50.7
28	55 30.71 50.53	5 15 34.4 5 18.1	1.321 9784 1778	12 35.8
April 1	56 21.24 50.77	5 20 52.5 5 18.7	1.322 1562 874	12 20.9
5	57 12.01 50.85	+5 26 11.2 5 18.3	1.322 2436 34	12 6.0
9	58 2.86 50.77	5 31 29.5 5 17.0	1.322 2402 940	11 51.1
13	58 53.63 50.54	5 36 46.5 5 14.6	1.322 1462 1847	11 36.2
17	59 44.17 50.12	5 42 1.1 5 11.1	1.321 9615 2744	11 21.3
21	I 0 34.29 49.53	5 47 12.2 5 6.6	1.321 6871 3628	11 6.4
25	I 1 23.82 48.79	5 52 18.8 5 1.0	1.321 3243 4493	10 51.5
29	I 2 12.61 47.92	+5 57 19.8 4 54.6	1.320 8750 5337	10 36.6
Mai 3	I 3 0.53 46.88	6 2 14.4 4 47.5	1.320 3413 6161	10 21.7
7	I 3 47.41 45.69	6 7 1.9 4 39.6	1.319 7252 6969	10 6.7
11	I 4 33.10 44.41	6 11 41.5 4 30.5	1.319 0283 7750	9 51.7
15	I 5 17.51 42.92	6 16 12.0 4 20.7	1.318 5233 8510	9 36.7
19	I 6 0.43 41.30	6 20 32.7 4 10.0	1.317 4023 9229	9 21.7
23	I 6 41.73 39.53	+6 24 42.7 3 58.5	1.316 4794 9916	9 6.7
27	I 7 21.26 37.67	6 28 41.2 3 46.3	1.315 4878 1 0562	8 51.6
31	I 7 58.93 35.68	6 32 27.5 3 33.6	1.314 4316 1 1171	8 36.5
Juni 4	I 8 34.61 33.57	6 36 1.1 3 20.2	1.313 3145 1 1741	8 21.4
8	I 9 8.18 31.34	6 39 21.3 3 6.0	1.312 1404 1 2270	8 6.2
12	I 9 39.52	+6 42 27.3	1.310 9134	7 51.0

Tag	O ^b Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juni 12	1 ^h 9 ^m 39.52 ^s 29.02	+6° 42' 27.3" 2 51.3	1.310 9134 1 2756	7 51.0
16	1 10 8.54 26.57	6 45 18.6 2 35.8	1.309 6378 1 3191	7 35.7
20	1 10 35.11 24.03	6 47 54.4 2 20.1	1.308 3187 1 3568	7 20.4
24	1 10 59.14 21.41	6 50 14.5 2 3.8	1.306 9619 1 3889	7 5.1
28	1 11 20.55 18.74	6 52 18.3 1 47.3	1.305 5730 1 4154	6 49.7
Juli 2	1 11 39.29 16.01	6 54 5.6 1 30.5	1.304 1576 1 4369	6 34.3
6	1 11 55.30 13.20	+6 55 36.1 1 13.2	1.302 7207 1 4528	6 18.8
10	1 12 8.50 10.35	6 56 49.3 0 55.7	1.301 2679 1 4622	6 3.3
14	1 12 18.85 7.44	6 57 45.0 0 38.1	1.299 8057 1 4650	5 47.8
18	1 12 26.29 4.53	6 58 23.1 0 20.2	1.298 3407 1 4612	5 32.2
22	1 12 30.82 1.61	6 58 43.3 0 2.6	1.296 8795 1 4500	5 16.5
26	1 12 32.43 1.29	6 58 45.9 0 15.0	1.295 4295 1 4330	5 0.8
30	1 12 31.14 4.17	+6 58 30.9 0 32.4	1.293 9965 1 4088	4 45.0
Aug. 3	1 12 26.97 7.02	6 57 58.5 0 49.5	1.292 5877 1 3787	4 29.2
7	1 12 19.95 9.84	6 57 9.0 1 6.5	1.291 2090 1 3416	4 13.4
11	1 12 10.11 12.62	6 56 2.5 1 23.2	1.289 8674 1 2972	3 57.5
15	1 11 57.49 15.30	6 54 39.3 1 39.4	1.288 5702 1 2455	3 41.6
19	1 11 42.19 17.87	6 52 59.9 1 54.7	1.287 3247 1 1871	3 25.6
23	1 11 24.32 20.33	+6 51 5.2 2 9.3	1.286 1376 1 1228	3 9.6
27	1 11 3.99 22.66	6 48 55.9 2 23.3	1.285 0148 1 0522	2 53.5
31	1 10 41.33 24.86	6 46 32.6 2 36.3	1.283 9626 9765	2 37.4
Sept. 4	1 10 16.47 26.92	6 43 56.3 2 48.5	1.282 9861 8945	2 21.3
8	1 9 49.55 28.81	6 41 7.8 2 59.9	1.282 0916 8070	2 5.1
12	1 9 20.74 30.51	6 38 7.9 3 9.7	1.281 2846 7139	1 48.9
16	1 8 50.23 32.00	+6 34 58.2 3 18.5	1.280 5707 6165	1 32.6
20	1 8 18.23 33.28	6 31 39.7 3 25.9	1.279 9542 5155	1 16.4
24	1 7 44.95 34.33	6 28 13.8 3 31.9	1.279 4387 4116	1 0.1
28	1 7 10.62 35.16	6 24 41.9 3 36.5	1.279 0271 3049	0 43.8
Okt. 2	1 6 35.46 35.79	6 21 5.4 3 40.0	1.278 7222 1961	0 27.5
6	1 5 59.67 36.15	6 17 25.4 3 41.9	1.278 5261 850	0 11.2
10	1 5 23.52 36.28	+6 13 43.5 3 42.1	1.278 4411 272	23 50.8
14	1 4 47.24 36.13	6 10 1.4 3 40.9	1.278 4683 1397	23 34.5
18	1 4 11.11 35.74	6 6 20.5 3 37.8	1.278 6080 2510	23 18.1
22	1 3 35.37 35.09	6 2 42.7 3 33.4	1.278 8590 3608	23 1.8
26	1 3 0.28 34.21	5 59 9.3 3 27.6	1.279 2108 4683	22 45.5
30	1 2 26.07 33.11	5 55 41.7 3 20.4	1.279 6881 5738	22 29.2
Nov. 3	1 1 52.96 31.79	+5 52 21.3 3 11.6	1.280 2619 6765	22 12.9
7	1 1 21.17 30.22	5 49 9.7 3 1.6	1.280 9384 7754	21 56.7
11	1 0 50.95 28.44	5 46 8.1 2 50.1	1.281 7138 8699	21 40.5
15	1 0 22.51 26.45	5 43 18.0 2 37.2	1.282 5837 9586	21 24.3
19	0 59 56.06 24.28	5 40 40.8 2 23.4	1.283 5423 0416	21 8.1
23	0 59 31.78	+5 38 17.4	1.284 5839	20 52.0

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Nov. 23	0 ^h 59 ^m 31.78 ^s 21.95	+5° 38' 17.4" 2' 8.5"	1.284 5839 1 1187	20 ^h 52.0 ^m
27	0 59 9.83 19.49	5 36 8.9 1 52.9	1.285 7026 1 1890	20 35.9
Dez. 1	0 58 50.34 16.87	5 34 16.0 1 36.4	1.286 8916 1 2538	20 19.9
5	0 58 33.47 14.13	5 32 39.6 1 19.0	1.288 1454 1 3114	20 3.9
9	0 58 19.34 11.27	5 31 20.6 1 0.9	1.289 4568 1 3616	19 47.9
13	0 58 8.07 8.33	5 30 19.7 0 42.4	1.290 8184 1 4037	19 32.0
17	0 57 59.74 5.33	+5 29 37.3 0 23.4	1.292 2221 1 4380	19 16.2
21	0 57 54.41 2.29	5 29 13.9 0 4.4	1.293 6601 1 4644	19 0.4
25	0 57 52.12 0.78	5 29 9.5 0 14.7	1.295 1245 1 4837	18 44.6
29	0 57 52.90 3.86	5 29 24.2 0 34.1	1.296 6082 1 4959	18 28.9
33	0 57 56.76	+5 29 58.3	1.298 1041	18 13.3

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Jan. -1	IO 30 ^m 54.55 ^s 11.37	+ IO 5 54.5 ^s 1 14.5	1.471 6621 8437	3 59.4
+3	IO 30 43.18 13.16	IO 7 9.0 1 24.7	1.470 8184 8027	3 43.5
7	IO 30 30.02 14.86	IO 8 33.7 1 34.3	1.470 0157 7576	3 27.5
11	IO 30 15.16 16.48	IO 10 8.0 1 43.5	1.469 2581 7081	3 11.6
15	IO 29 58.68 17.99	IO 11 51.5 1 51.9	1.468 5500 6542	2 55.6
19	IO 29 40.69 19.38	IO 13 43.4 1 59.6	1.467 8958 5968	2 39.5
23	IO 29 21.31 20.64	+ IO 15 43.0 2 6.6	1.467 2990 5858	2 23.5
27	IO 29 0.67 21.77	IO 17 49.6 2 12.4	1.466 7632 4716	2 7.4
31	IO 28 38.90 22.72	IO 20 2.0 2 17.5	1.466 2916 4054	1 51.3
Febr. 4	IO 28 16.18 23.55	IO 22 19.5 2 21.8	1.465 8862 3374	1 35.2
8	IO 27 52.63 24.24	IO 24 41.3 2 25.2	1.465 5488 2670	1 19.1
12	IO 27 28.39 24.77	IO 27 6.5 2 27.7	1.465 2818 1950	1 3.0
16	IO 27 3.62 25.13	+ IO 29 34.2 2 29.1	1.465 0868 1219	0 46.9
20	IO 26 38.49 25.31	IO 32 3.3 2 29.6	1.464 9649 478	0 30.7
24	IO 26 13.18 25.33	IO 34 32.9 2 29.0	1.464 9171 255	0 14.5
28	IO 25 47.85 25.17	IO 37 1.9 2 27.5	1.464 9426 984	23 54.4
März 4	IO 25 22.68 24.89	IO 39 29.4 2 25.2	1.465 0410 1703	23 38.2
8	IO 24 57.79 24.44	IO 41 54.6 2 21.8	1.465 2113 2417	23 22.1
12	IO 24 33.35 23.82	+ IO 44 16.4 2 17.9	1.465 4530 3111	23 6.0
16	IO 24 9.53 23.07	IO 46 34.3 2 12.9	1.465 7641 3791	22 49.8
20	IO 23 46.46 22.15	IO 48 47.2 2 7.2	1.466 1432 4446	22 33.7
24	IO 23 24.31 21.09	IO 50 54.4 2 0.5	1.466 5878 5070	22 17.6
28	IO 23 3.22 19.91	IO 52 54.9 1 53.1	1.467 0948 5664	22 1.5
April 1	IO 22 43.31 18.62	IO 54 48.0 1 45.3	1.467 6612 6220	21 45.5
5	IO 22 24.69 17.21	+ IO 56 33.3 1 36.8	1.468 2832 6746	21 29.5
9	IO 22 7.48 15.71	IO 58 10.1 1 27.8	1.468 9578 7234	21 13.5
13	IO 21 51.77 14.09	IO 59 37.9 1 18.4	1.469 6812 7689	20 57.5
17	IO 21 37.68 12.41	IO 0 56.3 1 8.3	1.470 4501 8098	20 41.5
21	IO 21 25.27 10.62	IO 2 4.6 0 57.9	1.471 2599 8458	20 25.6
25	IO 21 14.65 8.79	IO 3 2.5 0 47.1	1.472 1057 8777	20 9.7
29	IO 21 5.86 6.92	+ IO 3 49.6 0 36.1	1.472 9834 9044	19 53.8
Mai 3	IO 20 58.94 5.00	IO 4 25.7 0 25.2	1.473 8878 9274	19 38.0
7	IO 20 53.94 3.05	IO 4 50.9 0 14.0	1.474 8152 9461	19 22.2
11	IO 20 50.89 1.09	IO 5 4.9 0 2.6	1.475 7613 9599	19 6.4
15	IO 20 49.80 0.92	IO 5 7.5 0 8.8	1.476 7212 9697	18 50.7
19	IO 20 50.72 2.91	IO 4 58.7 0 20.4	1.477 6909 9740	18 35.0
23	IO 20 53.63 4.91	+ IO 4 38.3 0 31.6	1.478 6649 9739	18 19.3
27	IO 20 58.54 6.87	IO 4 6.7 0 42.9	1.479 6388 9694	18 3.7
31	IO 21 5.41 8.80	IO 3 23.8 0 53.8	1.480 6082 9610	17 48.1
Juni 4	IO 21 14.21 10.72	IO 2 30.0 1 4.7	1.481 5692 9486	17 32.5
8	IO 21 24.93 12.60	IO 1 25.3 1 15.3	1.482 5178 9325	17 16.9
12	IO 21 37.53	+ IO 0 10.0	1.483 4503	17 1.4

Tag	O ^b Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Juni 12	10 ^h 21 ^m 37.53 ^s 14.43	+11° 0' 10.0" 1 25.7	1.483 4503 9120	17 ^h 14 ^m
16	10 21 51.96 16.22	10 58 44.3 1 35.9	1.484 3623 8874	16 46.0
20	10 22 8.18 17.93	10 57 8.4 1 45.6	1.485 2497 8594	16 30.5
24	10 22 26.11 19.58	10 55 22.8 1 55.0	1.486 1091 8275	16 15.1
28	10 22 45.69 21.17	10 53 27.8 2 3.8	1.486 9366 7929	15 59.7
Juli 2	10 23 6.86 22.66	10 51 24.0 2 12.3	1.487 7295 7552	15 44.3
6	10 23 29.52 24.08	+10 49 11.7 2 20.4	1.488 4847 7148	15 29.0
10	10 23 53.60 25.42	10 46 51.3 2 27.9	1.489 1995 6717	15 13.6
14	10 24 19.02 26.69	10 44 23.4 2 35.2	1.489 8712 6250	14 58.3
18	10 24 45.71 27.86	10 41 48.2 2 41.6	1.490 4962 5760	14 43.0
22	10 25 13.57 28.91	10 39 6.6 2 47.7	1.491 0722 5251	14 27.8
26	10 25 42.48 29.85	10 36 18.9 2 53.0	1.491 5973 4728	14 12.5
30	10 26 12.33 30.71	+10 33 25.9 2 57.9	1.492 0701 4182	13 57.3
Aug. 3	10 26 43.04 31.47	10 30 28.0 3 2.1	1.492 4883 3623	13 42.1
7	10 27 14.51 32.14	10 27 25.9 3 5.7	1.492 8506 3045	13 26.9
11	10 27 46.65 32.67	10 24 20.2 3 8.9	1.493 1551 2455	13 11.7
15	10 28 19.32 33.11	10 21 11.3 3 11.2	1.493 4006 1857	12 56.5
19	10 28 52.43 33.41	10 18 0.1 3 12.9	1.493 5863 1245	12 41.3
23	10 29 25.84 33.60	+10 14 47.2 3 13.9	1.493 7108 632	12 26.2
27	10 29 59.44 33.69	10 11 33.3 3 14.3	1.493 7740 18	12 11.0
31	10 30 33.13 33.66	10 8 19.0 3 13.9	1.493 7758 598	11 55.8
Sept. 4	10 31 6.79 33.53	10 5 5.1 3 13.1	1.493 7160 1215	11 40.6
8	10 31 40.32 33.27	10 1 52.0 3 11.4	1.493 5945 1831	11 25.5
12	10 32 13.59 32.90	9 58 40.6 3 9.1	1.493 4114 2448	11 10.3
16	10 32 46.49 32.39	+9 55 31.5 3 6.0	1.493 1666 3050	10 55.1
20	10 33 18.88 31.77	9 52 25.5 3 2.1	1.492 8616 3643	10 39.9
24	10 33 50.65 31.05	9 49 23.4 2 57.8	1.492 4973 4223	10 24.7
28	10 34 21.70 30.22	9 46 25.6 2 52.7	1.492 0750 4786	10 9.5
Okt. 2	10 34 51.92 29.29	9 43 32.9 2 47.1	1.491 5964 5336	9 54.3
6	10 35 21.21 28.23	9 40 45.8 2 40.6	1.491 0628 5869	9 39.1
10	10 35 49.44 27.08	+9 38 5.2 2 33.6	1.490 4759 6384	9 23.8
14	10 36 16.52 25.80	9 35 31.6 2 25.9	1.489 8375 6869	9 8.5
18	10 36 42.32 24.43	9 33 5.7 2 17.6	1.489 1506 7327	8 53.2
22	10 37 6.75 22.97	9 30 48.1 2 8.8	1.488 4179 7750	8 37.9
26	10 37 29.72 21.43	9 28 39.3 1 59.4	1.487 6429 8149	8 22.5
30	10 37 51.15 19.82	9 26 39.9 1 49.7	1.486 8280 8514	8 7.1
Nov. 3	10 38 10.97 18.10	+9 24 50.2 1 39.3	1.485 9766 8847	7 51.7
7	10 38 29.07 16.31	9 23 10.9 1 28.6	1.485 0919 9140	7 36.3
11	10 38 45.38 14.44	9 21 42.3 1 17.3	1.484 1779 9392	7 20.9
15	10 38 59.82 12.54	9 20 25.0 1 5.7	1.483 2387 9598	7 5.4
19	10 39 12.36 10.57	9 19 19.3 0 53.9	1.482 2789 9760	6 49.8
23	10 39 22.93	+9 18 25.4	1.481 3029	6 34.3

Tag	O ^h Welt-Zeit			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1931				
Nov. 23	10 ^h 39 ^m 22.93 ^s 8.57	+9° 18' 25.4" 0 42.0	1.481 3029 9879	6 ^h 34.3
27	10 39 31.50 6.55	9 17 43.4 0 29.8	1.480 3150 9951	6 18.7
Dez. 1	10 39 38.05 4.49	9 17 13.6 0 17.4	1.479 3199 9977	6 3.1
5	10 39 42.54 2.41	9 16 56.2 0 5.0	1.478 3222 9959	5 47.4
9	10 39 44.95 0.33	9 16 51.2 0 7.3	1.477 3263 9883	5 31.7
13	10 39 45.28 1.75	9 16 58.5 0 19.7	1.476 3380 9757	5 16.0
17	10 39 43.53 3.79	+9 17 18.2 0 31.8	1.475 3623 9575	5 0.3
21	10 39 39.74 5.80	9 17 50.0 0 43.7	1.474 4048 9350	4 44.5
25	10 39 33.94 7.78	9 18 33.7 0 55.1	1.473 4698 9077	4 28.6
29	10 39 26.16 9.69	9 19 28.8 1 6.5	1.472 5621 8757	4 12.7
33	10 39 16.47	+9 20 35.3	1.471 6864	3 56.9

Mittleres Äquinoktium 1925.0

0^h Welt-Zeit	$\log r$	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	0^h Welt-Zeit	$\log r$	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
MERKUR 1931									
1931					1931				
Jan. -3	9.4969	47.80	0.00	+0.05	Juli 1	9.4967	104.33	+0.20	+5.88
+2	9.4879	78.95	+0.18	+3.67	6	9.5230	133.32	+0.03	+6.98
7	9.5006	110.01	+0.17	+6.22	11	9.5569	158.51	-0.14	+6.54
12	9.5291	138.35	-0.01	+7.00	16	9.5903	179.95	-0.21	+5.17
17	9.5634	162.80	-0.16	+6.33	21	9.6191	198.42	-0.18	+3.41
22	9.5961	183.62	-0.21	+4.86	26	9.6415	214.76	-0.09	+1.54
27	9.6238	201.62	-0.17	+3.06	31	9.6573	229.70	+0.02	-0.28
Febr. 1	9.6450	217.65	-0.07	+1.19	Aug. 5	9.6664	243.80	+0.12	-1.98
6	9.6595	232.39	+0.04	-0.61	10	9.6690	257.56	+0.19	-3.53
11	9.6674	246.40	+0.13	-2.29	15	9.6651	271.40	+0.21	-4.87
16	9.6688	260.13	+0.19	-3.80	20	9.6546	285.76	+0.19	-5.97
21	9.6636	274.04	+0.21	-5.10	25	9.6374	301.12	+0.11	-6.72
26	9.6518	288.55	+0.18	-6.14	30	9.6135	318.05	0.00	-7.00
März 3	9.6334	304.16	+0.09	-6.82	Sept. 4	9.5836	337.21	-0.14	-6.59
8	9.6084	321.45	-0.03	-6.99	9	9.5496	359.37	-0.21	-5.22
13	9.5775	341.12	-0.16	-6.42	14	9.5165	25.14	-0.15	-2.67
18	9.5431	3.92	-0.21	-4.83	19	9.4932	54.46	+0.05	+0.86
23	9.5111	30.40	-0.12	-2.06	24	9.4889	85.84	+0.21	+4.36
28	9.4907	60.27	+0.09	+1.56	29	9.5058	116.50	+0.14	+6.55
April 2	9.4906	91.74	+0.21	+4.90	Okt. 4	9.5364	144.03	-0.05	+6.96
7	9.5108	121.96	+0.11	+6.75	9	9.5709	167.63	-0.19	+6.06
12	9.5428	148.76	-0.08	+6.87	14	9.6027	187.76	-0.21	+4.48
17	9.5772	171.65	-0.20	+5.80	19	9.6290	205.27	-0.15	+2.65
22	9.6081	191.22	-0.20	+4.15	24	9.6487	220.96	-0.05	+0.79
27	9.6332	208.33	-0.13	+2.30	29	9.6618	235.50	+0.06	-0.99
Mai 2	9.6517	223.76	-0.03	+0.45	Nov. 3	9.6683	249.40	+0.15	-2.63
7	9.6635	238.14	+0.08	-1.31	8	9.6681	263.14	+0.20	-4.10
12	9.6687	251.98	+0.16	-2.92	13	9.6616	277.14	+0.21	-5.35
17	9.6674	265.74	+0.21	-4.35	18	9.6484	291.85	+0.17	-6.32
22	9.6596	279.83	+0.21	-5.56	23	9.6285	307.77	+0.07	-6.91
27	9.6452	294.73	+0.15	-6.47	28	9.6021	325.52	-0.06	-6.93
Juni 1	9.6240	310.94	+0.05	-6.96	Dez. 3	9.5701	345.80	-0.18	-6.17
6	9.5964	329.11	-0.08	-6.86	8	9.5357	9.37	-0.21	-4.33
11	9.5637	349.96	-0.19	-5.91	13	9.5053	36.66	-0.08	-1.31
16	9.5294	14.22	-0.20	-3.85	18	9.4888	67.09	+0.14	+2.37
21	9.5008	42.18	-0.04	-0.64	23	9.4935	98.54	+0.21	+5.46
26	9.4880	73.01	+0.17	+3.04	28	9.5172	128.14	+0.07	+6.91
Juli 1	9.4967	104.33	+0.20	+5.88	33	9.5504	154.08	-0.12	+6.71

$$\Omega = 47.442$$

$$i = 7.003$$

$$m = \frac{1}{6000000}$$

Mittleres Äquinoktium 1925.0

Oh Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
VENUS 1931					MARS 1931			
1931			in 0.001				in 0.001	
Jan. -8	9.85659	108.480	+45	+1.825	0.20922	110.560	+13	+1.627
+2	9.85640	124.708	+50	+2.552	0.21155	115.158	11	1.692
12	9.85643	140.960	+38	+3.076	0.21365	119.711	9	1.746
22	9.85670	157.212	+15	+3.354	0.21553	124.222	7	1.789
Febr. 1	9.85717	173.440	-13	+3.365	0.21716	128.696	5	1.821
11	9.85781	189.623	-37	+3.110	0.21854	133.140	+3	+1.840
21	9.85857	205.742	-49	+2.610	0.21968	137.558	+1	1.849
März 3	9.85938	221.787	-47	+1.909	0.22056	141.955	-1	1.847
13	9.86019	237.758	-30	+1.063	0.22119	146.337	4	1.834
23	9.86093	253.662	-4	+0.138	0.22156	150.710	6	1.811
April 2	9.86154	269.516	+23	-0.795	0.22167	155.077	-8	+1.777
12	9.86199	285.337	+43	-1.665	0.22152	159.444	10	1.733
22	9.86223	301.147	+50	-2.408	0.22111	163.816	11	1.678
Mai 2	9.86225	316.961	+43	-2.969	0.22044	168.200	13	1.614
12	9.86204	332.795	+22	-3.305	0.21951	172.599	14	1.540
22	9.86163	348.659	-5	-3.390	0.21834	177.019	-14	+1.456
Juni 1	9.86104	4.558	-30	-3.218	0.21691	181.465	15	1.364
11	9.86032	20.495	-47	-2.798	0.21524	185.942	15	1.262
21	9.85952	36.475	-49	-2.161	0.21333	190.457	14	1.152
Juli 1	9.85870	52.500	-37	-1.354	0.21118	195.013	14	1.033
11	9.85793	68.573	-13	-0.439	0.20881	199.617	-13	+0.907
21	9.85727	84.696	+15	+0.515	0.20623	204.273	11	0.773
31	9.85676	100.867	+38	+1.429	0.20344	208.987	10	0.632
Aug. 10	9.85646	117.080	+50	+2.232	0.20046	213.763	7	0.485
20	9.85639	133.323	+46	+2.858	0.19731	218.608	5	0.332
30	9.85655	149.577	+27	+3.256	0.19399	223.525	-3	+0.175
Sept. 9	9.85693	165.819	0	+3.394	0.19053	228.519	0	+0.014
19	9.85750	182.026	-27	+3.262	0.18696	233.595	+2	-0.150
29	9.85821	198.176	-45	+2.873	0.18330	238.756	5	0.315
Okt. 9	9.85900	214.256	-50	+2.260	0.17956	244.006	7	0.480
19	9.85982	230.261	-39	+1.475	0.17579	249.348	+10	-0.644
29	9.86060	246.194	-17	+0.578	0.17202	254.784	12	0.806
Nov. 8	9.86128	262.069	+11	-0.360	0.16828	260.316	13	0.963
18	9.86181	277.903	+35	-1.268	0.16460	265.943	14	1.113
28	9.86214	293.715	+49	-2.078	0.16104	271.666	15	1.255
Dez. 8	9.86227	309.525	+48	-2.731	0.15763	277.481	+15	-1.386
18	9.86217	325.349	+33	-3.177	0.15441	283.387	14	1.505
28	9.86185	341.198	+8	-3.382	0.15143	289.379	13	1.609
38	9.86134	357.079	-18	-3.330	0.14873	295.451	+11	-1.696
$\Omega = 76.005 \quad i = 3.394$					$\Omega = 48.979 \quad i = 1.850$			
$m = \frac{1}{408000}$					$m = \frac{1}{3093500}$			

Mittleres Äquinoktium 1925.0

Oh Welt-Zeit	log R	Länge	log r	Heliozent. Länge	Red. auf d. Bahn	Heliozent. Breite
	ERDE 1931			JUPITER 1931		
1931					in 0.0001	
Jan. -8	9.99281	90.362	0.715117	104.1533	+12	+0.1015
+2	9.99267	100.552	0.715423	104.9868	14	0.1205
12	9.99276	110.744	0.715729	105.8191	16	0.1394
22	9.99307	120.927	0.716034	106.6502	18	0.1582
Febr. 1	9.99359	131.089	0.716339	107.4802	20	0.1770
11	9.99431	141.223	0.716644	108.3090	+22	+0.1957
21	9.99520	151.320	0.716948	109.1366	24	0.2144
März 3	9.99623	161.372	0.717251	109.9631	26	0.2330
13	9.99736	171.373	0.717554	110.7884	28	0.2515
23	9.99857	181.321	0.717857	111.6126	30	0.2700
April 2	9.99982	191.212	0.718158	112.4356	+32	+0.2883
12	0.00106	201.047	0.718459	113.2575	34	0.3066
22	0.00227	210.826	0.718758	114.0783	36	0.3248
Mai 2	0.00340	220.552	0.719057	114.8979	38	0.3429
12	0.00443	230.230	0.719355	115.7164	39	0.3609
22	0.00533	239.866	0.719652	116.5338	+41	+0.3788
Juni 1	0.00607	249.465	0.719948	117.3500	43	0.3966
11	0.00663	259.035	0.720242	118.1652	45	0.4143
21	0.00701	268.584	0.720536	118.9793	47	0.4319
Juli 1	0.00719	278.121	0.720828	119.7923	48	0.4494
11	0.00716	287.654	0.721119	120.6042	+50	+0.4668
21	0.00693	297.193	0.721408	121.4150	51	0.4840
31	0.00651	306.747	0.721696	122.2247	53	0.5012
Aug. 10	0.00590	316.323	0.721983	123.0334	54	0.5182
20	0.00511	325.930	0.722268	123.8410	55	0.5351
30	0.00418	335.576	0.722551	124.6476	+57	+0.5518
Sept. 9	0.00313	345.266	0.722833	125.4531	58	0.5685
19	0.00197	355.005	0.723113	126.2576	60	0.5850
29	0.00075	4.798	0.723391	127.0611	61	0.6013
Okt. 9	9.99951	14.647	0.723668	127.8635	62	0.6175
19	9.99827	24.552	0.723943	128.6649	+63	+0.6336
29	9.99707	34.513	0.724216	129.4653	64	0.6496
Nov. 8	9.99596	44.528	0.724486	130.2648	65	0.6654
18	9.99496	54.591	0.724755	131.0632	66	0.6810
28	9.99411	64.697	0.725022	131.8606	67	0.6965
Dez. 8	9.99344	74.839	0.725287	132.6571	+68	+0.7118
18	9.99297	85.007	0.725550	133.4526	69	0.7270
28	9.99272	95.193	0.725810	134.2472	70	0.7420
38	9.99268	105.386	0.726069	135.0408	+70	+0.7569
	$m = \frac{1}{329.390}$		$\Omega = 99.6906$	$i = 1.3073$	$m = \frac{1}{1047.35}$	

Mittleres Äquinoktium 1925.0

Oh Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
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SATURN 1931

			in 0.001	
1930 Nov. 23	1.001556	282.8594	-94	+0.4389
1931 Jan. 2	1.001451	284.0645	83	0.3872
Febr. 11	1.001336	285.2701	72	0.3354
März 23	1.001210	286.4764	61	0.2833
Mai 2	1.001074	287.6834	50	0.2311
Juni 11	1.000927	288.8912	39	0.1787
Juli 21	1.000770	290.0998	27	0.1263
Aug. 30	1.000603	291.3094	16	0.0737
Okt. 9	1.000426	292.5199	-4	+0.0210
Nov. 18	1.000238	293.7315	+7	-0.0317
1931 Dez. 28	1.000041	294.9442	19	0.0844
1932 Febr. 6	0.999833	296.1581	+30	-0.1371

$$\Omega = 113.0016$$

$$i = 2.4913$$

$$m = \frac{1}{3501.6}$$

URANUS 1931

			in 0.001	
1930 Nov. 23	1.30129	13.803	-2	-0.668
1931 Jan. 2	1.30122	14.235	2	0.665
Febr. 11	1.30115	14.666	2	0.662
März 23	1.30107	15.097	2	0.659
Mai 2	1.30100	15.529	2	0.656
Juni 11	1.30093	15.961	2	0.653
Juli 21	1.30085	16.392	2	0.650
Aug. 30	1.30077	16.824	2	0.647
Okt. 9	1.30069	17.256	2	0.644
Nov. 18	1.30061	17.688	2	0.640
1931 Dez. 28	1.30053	18.121	2	0.637
1932 Febr. 6	1.30045	18.553	-3	-0.634

$$\Omega = 73.616$$

$$i = 0.773$$

$$m = \frac{1}{22869}$$

NEPTUN 1931

			in 0.001	
1930 Nov. 23	1.47937	153.771	+10	+0.689
1931 Jan. 2	1.47938	154.009	10	0.696
Febr. 11	1.47940	154.247	10	0.703
März 23	1.47942	154.485	10	0.710
Mai 2	1.47943	154.723	10	0.716
Juni 11	1.47945	154.961	10	0.723
Juli 21	1.47947	155.199	10	0.730
Aug. 30	1.47948	155.437	10	0.737
Okt. 9	1.47950	155.675	11	0.743
Nov. 18	1.47951	155.913	11	0.750
1931 Dez. 28	1.47953	156.151	11	0.757
1932 Febr. 6	1.47955	156.389	+11	+0.763

$$\Omega = 130.954$$

$$i = 1.777$$

$$m = \frac{1}{19314}$$

Mittlere und Scheinbare Sternörter 1931

Reduktionsgrößen

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
905	[2 Ceti]	4.62	M A o	0 ^h 0 ^m 12.368	+3.0737	+ 12	-17° 43' 12.31	+20.040	- 4
1	α Androm.	2.15	A o p	0 4 48.995	+3.0990	+ 107	+28 42 34.29	+19.879	- 161
2	β Cassiopeiae	2.42	F 5	0 5 29.022	+3.1933	+ 677	+58 46 9.16	+19.859	- 180
3	ε Phoenicis	3.94	K o	0 5 54.763	+3.0470	+ 99	-46 7 41.95	+19.845	- 192
4	[22 Androm.]	5.08	F o	0 6 43.599	+3.1139	+ 8	+45 41 17.75	+20.033	- 3
5	[α ² Sculptoris]	5.56	K o	0 8 4.347	+3.0481	+ 4	-28 11 3.39	+20.038	+ 6
6	[η Sculptoris]	5.19	F 5	0 8 13.604	+3.0490	+ 104	-35 31 9.83	+20.155	+ 124
7	γ Pegasi	2.87	B 2	0 9 40.795	+3.0879	+ 1	+14 47 59.75	+20.013	- 14
8	[Br. 6]	6.23	B 9	0 12 17.249	+3.3795	+ 68	+76 34 2.87	+20.017	+ 1
9	ι Ceti	3.75	K o	0 15 54.737	+3.0564	- 15	- 9 12 22.96	+19.964	- 32
10	ζ Tucanae	4.34	F 8	0 16 29.171	+3.1338	+2695	-65 16 49.43	+21.146	+1154
11	β Hydri	2.90	G o	0 22 9.273	+3.1779	+6938	-77 38 34.17	+20.269	+ 318
12	α Phoenicis	2.44	K o	0 22 52.567	+2.9669	+ 168	-42 40 51.05	+19.536	- 409
13	12 Ceti	6.04	K 5	0 26 31.048	+3.0620	+ 8	- 4 20 18.37	+19.902	- 8
14	[Ceti 49 G.]	5.23	A 3	0 26 55.753	+3.0001	- 25	-24 10 9.76	+19.915	+ 9
15	[λ ¹ Phoenicis]	4.88	A 2	0 28 5.461	+2.8960	+ 123	-49 11 6.44	+19.906	+ 12
16	[α Cassiop.]	4.24	B o	0 29 3.752	+3.3994	+ 11	+62 33 4.39	+19.886	+ 3
17	ζ Cassiopeiae	3.72	B 3	0 33 6.953	+3.3354	+ 23	+53 31 2.62	+19.828	- 7
18	π Androm.	4.44	B 3	0 33 11.400	+3.2015	+ 17	+33 20 23.06	+19.835	0
19	[ε Androm.]	4.52	G 5	0 34 54.261	+3.1677	- 173	+28 56 14.40	+19.561	- 251
20	δ Androm.	3.49	K 2	0 35 37.969	+3.2053	+ 106	+30 29 1.36	+19.719	- 84
21	α Cassiopeiae	2.47	K o	0 36 34.722	+3.3956	+ 60	+56 9 33.10	+19.760	- 29
22	β Ceti	2.24	K o	0 40 7.599	+3.0117	+ 160	-18 21 54.38	+19.776	+ 39
23	[η Phoenicis]	4.53	A o	0 40 15.612	+2.7020	+ 5	-57 50 29.75	+19.728	- 8
26	[λ ² Sculptoris]	5.97	K o	0 40 51.973	+2.9001	+ 178	-38 48 6.29	+19.841	+ 114
25	ο Cassiopeiae	4.70	B 2	0 40 52.248	+3.3375	+ 22	+47 54 25.11	+19.718	- 8
24	21 Cassiopeiae	5.59	A 2	0 41 3.353	+3.9322	- 57	+74 36 40.32	+19.700	- 23
27	ζ Androm.	4.30	K o	0 43 40.598	+3.1775	- 75	+23 53 31.52	+19.603	- 79
28	[δ Piscium]	4.55	K 5	0 45 6.004	+3.1112	+ 52	+ 7 12 35.39	+19.612	- 46
31	[λ Hydri]	4.96	K 5	0 46 12.416	+2.0927	+ 397	-75 17 55.93	+19.612	- 27
29	[Br. 82]	5.45	F ² _{+A2}	0 46 31.358	+3.6281	+ 59	+63 52 20.21	+19.628	- 5
30	[19 Ceti]	5.24	F 5	0 46 40.227	+3.0044	- 159	-11 0 56.30	+19.408	- 223
34	[λ ² Tucanae]	5.34	K o	0 52 25.742	+2.2415	- 33	-69 54 0.20	+19.477	- 45
32	γ Cassiopeiae	2.25	B o p	0 52 31.681	+3.6098	+ 37	+60 20 36.47	+19.516	- 4
33	μ Androm.	3.94	A 2	0 52 54.968	+3.3258	+ 129	+38 7 31.69	+19.548	+ 36
35	α Sculptoris	4.39	B 5	0 55 16.887	+2.8901	- 5	-29 43 48.86	+19.459	- 5
36	ε Piscium	4.45	K o	0 59 21.585	+3.1126	- 55	+ 7 31 8.64	+19.406	+ 30
37	[26 Ceti]	6.07	F o	1 0 15.876	+3.0870	+ 81	+ 0 59 50.32	+19.316	- 39
38	β Phoenicis	3.35	K o	1 3 0.335	+2.6771	- 56	-47 5 17.40	+19.276	- 15
39	[ι Tucanae]	5.32	K o	1 4 34.924	+2.3798	+ 100	-62 8 36.59	+19.250	- 4

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".0001	Dekl. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
40	[η Ceti]	3.60	K o	1 ^h 5 ^m 7.061	+3.0169	+ 137	-10° 32' 51.49	+19.109	-132
42	β Androm.	2.37	M a	1 5 51.724	+3.3557	+ 151	+35 15 18.71	+19.110	-113
41	[44 H. Cephei]	5.68	A o	1 6 14.382	+5.1235	+ 334	+79 18 26.85	+19.222	+ 9
43	[τ Piscium]	4.70	K o	1 7 51.269	+3.3011	+ 56	+29 43 25.11	+19.131	- 41
44	[Sculpt. 102 G.]	5.91	A 5	1 9 34.650	+2.7622	+ 39	-38 13 18.47	+19.100	- 27
45	ν Piscium	4.67	A 2	1 15 40.098	+3.2942	+ 15	+26 54 6.69	+18.951	- 11
47	θ Ceti	3.83	K o	1 20 34.425	+2.9983	- 55	- 8 32 20.18	+18.604	-214
46	[ψ Cassiop.]	4.96	K o	1 21 1.926	+4.2185	+ 135	+67 46 14.20	+18.837	+ 32
48	δ Cassiopeiae	2.80	A 5	1 21 17.085	+3.9126	+ 399	+59 52 38.46	+18.753	- 43
49	[γ Phoenixis]	3.40	K 5	1 25 22.152	+2.6048	- 38	-43 40 17.29	+18.452	-218
50	η Piscium	3.72	G 5	1 27 47.234	+3.2082	+ 15	+14 59 26.12	+18.584	- 7
51	40 Cassiopeiae	5.50	K o	1 32 57.719	+4.7627	- 20	+72 41 21.42	+18.412	- 6
53	[Hydri 14 G.]	6.06	G 5	1 33 10.508	+0.3837	- 70	-78 51 17.96	+18.283	-128
52	ν Persei	3.77	K o	1 33 44.748	+3.6754	+ 64	+48 16 45.39	+18.277	-113
54	α Eridani	0.60	B 5	1 35 8.844	+2.2362	+ 122	-57 35 13.04	+18.304	- 38
55	43 Cassiopeiae	5.54	A o p	1 37 12.150	+4.4222	+ 88	+67 41 41.78	+18.267	- 2
56	[ν Piscium]	4.68	K o	1 37 50.289	+3.1210	- 16	+ 5 8 20.30	+18.247	+ 2
58	[Sculpt. 129 G.]	5.64	A o	1 39 0.433	+2.6428	- 57	-37 10 47.88	+18.180	- 23
57	φ Persei	4.19	B o p	1 39 19.414	+3.7525	+ 26	+50 20 30.63	+18.177	- 15
59	τ Ceti	3.65	K o	1 40 51.739	+2.7870	-1195	-16 18 1.43	+18.987	+852
60	ν Piscium	4.50	K o	1 41 44.822	+3.1665	+ 47	+ 8 48 39.85	+18.151	+ 50
61	Lac. ϵ Sculpt.	5.39	F o	1 42 24.803	+2.8087	+ 99	-25 23 50.06	+18.001	- 75
62	ζ Ceti	3.92	K o	1 48 3.212	+2.9607	+ 22	-10 40 31.19	+17.824	- 34
64	α Trianguli	3.58	F 5	1 49 8.539	+3.4170	+ 11	+29 14 36.27	+17.581	-233
63	ϵ Cassiopeiae	3.44	B 3	1 49 24.555	+4.3003	+ 50	+63 19 52.41	+17.788	- 15
65	ξ Piscium	4.84	K o	1 49 58.872	+3.1049	+ 13	+ 2 50 50.84	+17.799	+ 19
66	β Arietis	2.72	A 5	1 50 49.403	+3.3114	+ 65	+20 28 17.22	+17.637	-109
67	ψ Phoenixis	4.41	M b	1 50 52.837	+2.4052	- 94	-46 38 25.23	+17.643	-101
69	[γ^2 Hydri]	4.72	K o	1 53 11.018	+1.5181	+ 119	-67 59 10.93	+17.729	+ 79
68	χ Eridani	3.73	G 5	1 53 16.343	+2.3341	+ 712	-51 57 7.94	+17.916	+270
72	α Hydri	3.02	F o	1 56 35.698	+1.8897	+ 361	-61 54 19.05	+17.527	+ 21
71	ν Ceti	4.18	M a	1 56 45.225	+2.8264	+ 91	-21 24 41.39	+17.485	- 14
70	50 Cassiopeiae	4.06	A 2	1 57 30.119	+5.0918	- 91	+72 5 18.83	+17.492	+ 25
73	γ Androm.	2.28 5.08	K o A o	1 59 39.286	+3.6772	+ 43	+41 59 57.84	+17.320	- 54
74	α Arietis	2.23	K 2	2 3 16.701	+3.3792	+ 137	+23 8 13.23	+17.071	-143
75	β Trianguli	3.08	A 5	2 5 25.828	+3.5659	+ 122	+34 39 42.36	+17.076	- 40
77	[6 Persei]	5.40	K o	2 9 0.234	+3.9823	+ 368	+50 44 46.41	+16.783	-169
76	55 Cassiopeiae	6.15	F 5 + A 2	2 9 2.491	+4.6892	- 10	+66 12 8.02	+16.953	+ 3
78	Lac. μ Forn.	5.24	A o	2 9 52.202	+2.6424	+ 13	-31 2 49.03	+16.913	+ 2
79	[γ Trianguli]	4.07	A o	2 13 12.317	+3.5628	+ 37	+33 31 44.62	+16.709	- 44

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
80	67 Ceti	5.70	G 5	2 ^h 13 ^m 32.413	+2.9915	+ 55	- 6° 44' 21.91	+16.627	-110
82	[φ Eridani]	3.78	B 8	2 14 2.613	+2.1425	+ 81	-51 49 52.36	+16.677	- 36
81	[θ Arietis]	5.69	A 0	2 14 16.981	+3.3348	- 10	+19 34 58.00	+16.699	- 2
83	[α Fornacis]	5.37	F 5	2 19 23.108	+2.7451	+ 142	-24 7 45.30	+16.387	- 63
84	[λ Horologii]	5.47	F 2	2 22 58.096	+1.6770	- 95	-60 37 13.56	+16.132	-137
86	[α Eridani]	4.44	B 5	2 24 27.271	+2.1976	- 2	-48 0 47.41	+16.170	- 23
85	ξ ² Ceti	4.34	A 0	2 24 29.245	+3.1883	+ 26	+ 8 9 5.95	+16.187	- 4
88	[λ ¹ Fornacis]	5.88	K 0	2 30 14.276	+2.4993	- 43	-34 57 10.77	+15.857	- 32
87	36 H. Cassiop.	5.34	K 0	2 31 25.766	+5.6707	- 60	+72 31 5.19	+15.847	+ 21
90	μ Hydri	5.29	K 0	2 33 5.386	-1.3075	+ 470	-79 24 38.16	+15.703	- 33
89	ν Arietis	5.36	A 2	2 34 53.599	+3.4041	- 9	+21 39 50.44	+15.622	- 16
91	δ Ceti	4.04	B 2	2 35 56.612	+3.0740	+ 7	+ 0 1 54.19	+15.578	- 2
95	[ε Hydri]	4.26	B 9	2 38 31.296	+0.9191	+ 168	-68 33 44.46	+15.442	+ 5
92	[Br. 366]	5.84	A 2	2 38 51.639	+5.1402	+ 25	+67 31 58.75	+15.390	- 29
94	[35 Arietis]	4.58	B 3	2 39 23.814	+3.5174	+ 4	+27 24 52.57	+15.382	- 7
93	θ Persei	4.22	F 8	2 39 28.539	+4.0908	+ 346	+48 56 15.99	+15.296	- 89
96	[γ Ceti]	3.58	A 2	2 39 43.362	+3.1072	- 98	+ 2 56 45.28	+15.222	-148
97	π Ceti	4.39	B 5	2 40 50.261	+2.8546	- 8	-14 9 0.17	+15.299	- 9
98	μ Ceti	4.36	F 0	2 41 12.525	+3.2414	+ 189	+ 9 49 25.54	+15.255	- 31
99	[η Persei]	3.93	K 0	2 45 38.933	+4.3671	+ 28	+55 36 37.67	+15.022	- 11
100	41 Arietis	3.68	B 8	2 45 55.007	+3.5285	+ 51	+26 58 37.91	+14.904	-113
101	β Fornacis	4.50	K 0	2 46 12.127	+2.5103	+ 63	-32 41 41.84	+15.159	+159
102	τ ² Eridani	4.81	K 0	2 47 54.486	+2.7208	- 39	-21 17 16.09	+14.872	- 29
103	τ Persei	4.06	G 0	2 49 21.156	+4.2453	+ 3	+52 28 53.11	+14.815	- 2
104	η Eridani	4.05	K 0	2 53 3.312	+2.9302	+ 52	- 9 10 18.79	+14.378	-218
106	θ Eridani	3.42 4.42	A 2	2 55 38.564	+2.2724	- 67	-40 34 49.32	+14.468	+ 28
105	47 H. Cephei	5.66	M a	2 56 49.984	+7.9224	- 113	+79 8 55.20	+14.390	+ 22
107	α Ceti	2.82	M a	2 58 40.188	+3.1347	- 9	+ 3 49 12.06	+14.179	- 76
108	γ Persei	3.08	F 5	2 59 47.147	+4.3367	+ 2	+53 14 15.40	+14.183	- 4
109	*ρ Persei	var.	M b	3 0 44.835	+3.8404	+ 114	+38 34 27.03	+14.024	-103
110	μ Horologii	5.16	F 0	3 1 58.992	+1.4101	- 117	-60 0 17.99	+13.983	- 68
113	[θ Hydri]	5.52	B 8	3 2 5.936	+0.1132	+ 51	-72 10 18.52	+14.065	+ 22
111	*β Persei	var.	B 8	3 3 40.275	+3.8990	+ 7	+40 41 27.98	+13.943	- 1
112	[ι Persei]	4.17	G 0	3 4 4.560	+4.3225	+1297	+49 21 3.91	+13.835	- 84
114	δ Arietis	4.53	K 0	3 7 40.748	+3.4285	+ 106	+19 28 0.94	+13.687	- 4
117	12 Eridani	3.95	F 8	3 9 8.304	+2.5470	+ 241	-29 15 29.71	+14.241	+644
116	[94 Ceti]	5.14	F 8	3 9 15.074	+3.0616	+ 136	- 1 27 11.37	+13.528	- 62
118	[Horol. 38 G.]	5.72	N a	3 10 48.011	+1.5162	- 5	-57 34 46.67	+13.484	- 6
115	48 H. Cephei	5.50	F 0	3 11 29.640	+7.5557	+ 183	+77 29 2.30	+13.401	- 44
119	[ε Eridani]	4.30	G 5	3 17 10.355	+2.3958	+2785	-43 19 59.11	+13.803	+730

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
120	α Persei	1.90	F 5	3 19 23.151	+4.2766	+ 29	+49° 37' 1.41	+12.899	— 26
121	\circ Tauri	3.80	G 5	3 21 5.836	+3.2274	— 44	+ 8 47 13.71	+12.734	— 76
123	[ξ Tauri]	3.75	B 8	3 23 25.597	+3.2501	+ 39	+ 9 29 35.25	+12.608	— 45
122	2 H. Camelop.	4.42	B 9 p	3 23 27.894	+4.8468	— 1	+59 42 6.06	+12.657	+ 6
124	[σ Persei]	4.55	K 0	3 25 42.019	+4.2243	+ 9	+47 45 30.80	+12.522	+ 23
125	f Tauri	4.28	K 0	3 27 3.616	+3.3108	+ 13	+12 42 4.70	+12.400	— 5
126	[α Reticuli]	4.80	F 5	3 28 9.865	+1.0403	+514	—63 10 49.95	+12.690	+361
127	ϵ Eridani	3.81	K 0	3 29 40.716	+2.8263	—658	— 9 41 27.27	+12.238	+ 13
128	[Horol. 45 G.]	5.60	K 0	3 30 31.009	+1.7843	+ 48	—50 36 43.69	+12.247	+ 80
130	[y Eridani]	4.58	K 0	3 34 37.041	+2.1520	— 16	—40 30 0.64	+11.855	— 24
129	[Grb 716]	5.32	M a	3 36 8.929	+5.1931	— 21	+62 59 42.08	+11.794	+ 22
131	δ Persei	3.10	B 5	3 38 0.182	+4.2663	+ 33	+47 34 6.51	+11.604	— 35
133	[δ Fornacis]	4.93	B 5	3 39 30.177	+2.3853	— 5	—32 9 28.93	+11.540	+ 7
135	[δ Eridani]	3.72	K 0	3 39 56.487	+2.8736	— 64	— 9 59 45.20	+12.248	+747
132	[\circ Persei]	3.94	B 1	3 39 59.183	+3.7596	+ 8	+32 4 15.47	+11.481	— 17
134	ν Persei	3.93	F 5	3 40 29.935	+4.0720	— 6	+42 21 43.39	+11.456	— 5
136	[17 Tauri]	3.81	B 5 p	3 40 46.435	+3.5607	+ 17	+23 53 51.84	+11.398	— 44
137	[24 Eridani]	5.09	B 8	3 41 0.113	+3.0466	+ 1	— 1 22 46.84	+11.417	— 8
138	5 H. Camelop.	4.67	A 0	3 43 2.514	+6.3077	+ 42	+71 7 19.27	+11.238	— 40
141	β Reticuli	3.80	K 0	3 43 19.666	+0.7470	+477	—65 1 26.34	+11.318	+ 61
139	η Tauri	2.96	B 5 p	3 43 22.729	+3.5645	+ 17	+23 53 35.04	+11.206	— 48
140	τ^6 Eridani	4.33	F 8	3 43 52.681	+2.5801	—123	—23 27 8.93	+10.698	—519
142	[27 Tauri]	3.80	B 8	3 45 3.306	+3.5654	+ 14	+23 50 37.55	+11.087	— 45
143	g Eridani	4.24	K 0	3 46 52.301	+2.2451	— 40	—36 24 30.23	+10.948	— 52
146	γ Hydri	3.17	M a	3 48 17.252	—0.9457	+124	—74 27 3.41	+11.005	+109
144	ζ Persei	2.91	B 1	3 49 47.390	+3.7691	+ 11	+31 40 48.52	+10.774	— 11
145	*9 H. Camelop.	5.22	K 0 +A 0	3 51 14.287	+5.1051	— 3	+60 54 31.02	+10.662	— 16
147	ϵ Persei	2.96	B 1	3 53 13.032	+4.0229	+ 23	+39 48 43.53	+10.502	— 29
148	ξ Persei	4.05	Oe 5	3 54 28.962	+3.8905	+ 10	+35 35 38.49	+10.429	— 8
149	γ Eridani	3.19	K 5	3 54 48.538	+2.7987	+ 42	—13 42 13.65	+10.301	—112
150	* λ Tauri	var.	B 3	3 56 51.270	+3.3227	— 5	+12 17 47.87	+10.246	— 13
151	ν Tauri	3.94	A 0	3 59 29.020	+3.1907	+ 4	+ 5 47 56.39	+10.051	— 10
153	[Erid. 174 G.]	5.57	A 5	4 2 46.741	+2.4723	+148	—27 50 22.51	+ 9.918	+108
152	c Persei	4.03	B 3 p	4 3 38.690	+4.3519	+ 33	+47 31 47.82	+ 9.712	— 32
154	\circ^1 Eridani	4.14	F 2	4 8 29.768	+2.9283	+ 8	— 7 0 58.95	+ 9.454	+ 82
155	α Horologii	3.83	K 0	4 11 42.764	+1.9860	+ 20	—42 27 49.92	+ 8.903	—219
156	α Reticuli	3.36	G 5	4 13 31.836	+0.7686	+ 50	—62 38 46.34	+ 9.027	+ 47
157	[γ Doradus]	4.36	F 5	4 14 12.908	+1.5690	+ 89	—51 39 36.74	+ 9.098	+172
160	ν^4 Eridani	3.59	B 9	4 15 16.875	+2.2688	+ 37	—33 57 57.57	+ 8.831	— 12
159	[γ Tauri]	3.86	K 0	4 15 51.835	+3.4132	+ 82	+15 27 44.27	+ 8.769	— 29

Nr. 145. Doppelstern, Größe der Komponenten: 5.0 und 8.2

Nr. 150. Größe: Max. 3.3, Min. 4.2

Nr.	N a m e	Gr.	Spektrum	A.R. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
158	[54 Persei]	5.10	G 5	4 15 55.520	+3.8933	— 20	+34° 24' 6.14	+8.787	— 6
161	[Erid. 212 G.]	5.31	A 0	4 17 38.449	+2.6186	+ 36	—20 48 10.41	+8.673	+ 15
162	δ Tauri	3.93	K 0	4 18 57.170	+3.4590	+ 78	+17 22 55.36	+8.523	— 31
163	[η Reticuli]	5.18	K 0	4 21 8.295	+0.6456	+127	—63 33 0.16	+8.540	+160
166	[δ Mensae]	5.62	K 0 p	4 22 35.584	—4.0974	+ 99	—80 22 37.56	+8.336	+ 71
164	ε Tauri	3.63	K 0	4 24 35.100	+3.5025	+ 80	+19 1 43.82	+8.070	— 35
165	*[1 Camel. seq.]	5.42	B 1	4 26 33.408	+4.7474	+ 7	+53 45 46.09	+7.948	0
167	[δ Caeli]	5.16	B 3	4 28 43.196	+1.8363	— 6	—45 6 4.59	+7.757	— 17
168	α Tauri	1.06	K 5	4 31 57.535	+3.4417	+ 48	+16 22 19.17	+7.323	—189
171	α Doradus	3.47	A 0 p	4 32 30.313	+1.2967	+ 71	—55 11 12.91	+7.471	+ 3
170	[ν ³ Eridani]	3.88	K 0	4 32 51.996	+2.3315	— 46	—30 42 9.15	+7.433	— 6
169	ν Eridani	4.12	B 2	4 32 52.204	+2.9974	+ 2	— 3 29 32.36	+7.434	— 4
172	53 Eridani	3.98	K 0	4 35 1.142	+2.7468	— 54	—14 26 16.31	+7.099	—164
174	τ Tauri	4.33	B 5	4 38 6.076	+3.6004	+ 5	+22 49 33.68	+6.992	— 19
173	Grb 848	6.04	F 0	4 39 30.871	+8.0490	+105	+75 49 8.28	+6.762	—134
176	[μ Eridani]	4.18	B 5	4 42 3.079	+2.9999	+ 13	— 3 22 47.59	+6.675	— 12
175	4 Camelop.	5.35	A 2	4 42 14.829	+4.9927	+ 60	+56 38 12.20	+6.524	—146
177	[μ Mensae]	5.69	B 9	4 43 44.725	—0.6054	+ 17	—71 3 28.11	+6.575	+ 28
178	9 Camelop.	4.38	B 0	4 47 10.599	+5.9553	+ 5	+66 13 40.98	+6.272	+ 10
179	[π ⁴ Orionis]	3.78	B 3	4 47 31.770	+3.1949	0	+ 5 29 18.03	+6.226	— 7
180	π ⁵ Orionis	3.87	B 3	4 50 39.340	+3.1246	— 2	+ 2 19 44.19	+5.970	— 3
181	ι Aurigae	2.90	K 2	4 52 29.838	+3.9062	+ 10	+33 3 30.57	+5.799	— 20
183	*ε Aurigae	var.	F 5 p	4 57 0.811	+4.3036	+ 6	+43 43 22.57	+5.426	— 14
182	10 Camelop.	4.22	G 0 p	4 57 16.317	+5.3324	— 1	+60 20 37.34	+5.406	— 12
184	ι Tauri	4.70	A 5	4 58 58.179	+3.5859	+ 53	+21 29 34.56	+5.232	— 43
185	η Aurigae	3.28	B 3	5 1 40.364	+4.2061	+ 33	+41 8 34.53	+4.975	— 71
186	ε Leporis	3.29	K 5	5 2 32.380	+2.5397	+ 20	—22 27 45.34	+4.905	— 68
187	[η ² Pictoris]	4.92	K 5	5 3 10.517	+1.5505	+ 35	—49 40 13.69	+4.925	+ 6
189	[ζ Doradus]	4.76	F 8	5 4 19.404	+1.0247	— 70	—57 33 59.85	+4.925	+103
188	β Eridani	2.92	A 3	5 4 27.410	+2.9495	— 59	— 5 10 27.75	+4.731	— 79
190	[λ Eridani]	4.34	B 2	5 5 50.618	+2.8711	+ 3	— 8 50 28.83	+4.689	— 4
192	μ Aurigae	4.78	A 3	5 8 42.224	+4.1044	— 13	+38 24 16.17	+4.370	— 79
191	19 H. Camelop.	5.16	F 8	5 11 8.858	+9.8600	—311	+79 9 22.37	+4.401	+161
194	β Orionis	0.34	B 8 p	5 11 13.248	+2.8830	+ 2	— 8 16 48.38	+4.234	0
193	α Aurigae	0.21	G 0	5 11 35.314	+4.4310	+ 84	+45 55 47.01	+3.775	—428
196	θ Doradus	4.78	K 0	5 13 48.332	—0.0498	+ 14	—67 15 46.55	+4.051	+ 39
195	[τ Orionis]	3.68	B 5	5 14 15.303	+2.9129	— 12	— 6 55 3.74	+3.967	— 7
197	[ο Columbae]	4.91	K 0	5 14 59.679	+2.1628	+ 63	—34 57 41.79	+3.582	—329
198	[Columb. 12 G.]	5.75	A 0	5 16 38.676	+2.3923	+ 8	—27 26 19.70	+3.758	— 11
199	[ζ Pictoris]	5.52	F 8	5 17 40.439	+1.4701	+ 9	—50 40 46.11	+3.908	+227

Nr 165. Doppelstern, Größe der Komponenten: 5.86 und 6.61.

Nr. 183. Größe: Max. 3.4, Min. 4.1

Mittlere Sternörter 1931.0

7*

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
200	[η Orion. med.]	M	B I	^h 2 ⁿ 0.440	+3.0168	+ 5	- 2 27 33.42	+3.395	+ 1
201	γ Orionis	1.70	B 2	5 21 25.759	+3.2178	- 3	+ 6 17 18.47	+3.337	- 20
202	β Tauri	1.78	B 8	5 21 55.721	+3.7925	+ 25	+28 33 2.94	+3.138	-177
203	17 Camelop.	5.75	K 5	5 23 38.833	+5.6636	- 3	+63 0 43.45	+3.165	- 1
204	[β Leporis]	2.96	Go	5 25 17.336	+2.5712	+ 4	-20 48 48.33	+2.931	- 93
206	δ Orionis	^{2.48} 6.87	B o	5 28 28.827	+3.0648	0	- 0 20 55.99	+2.746	- 2
207	α Leporis	2.69	F o	5 29 41.178	+2.6460	+ 2	-17 52 13.98	+2.646	+ 2
205	Grb 966	6.36	K 5	5 30 29.227	+8.0184	- 8	+75 0 5.82	+2.594	+ 20
208	[γ^1 Orionis]	4.53	B o	5 31 1.892	+3.2933	- 1	+ 9 26 39.06	+2.517	- 10
209	ϵ Orionis	2.87	Oe 5	5 32 3.443	+2.9350	+ 4	- 5 57 14.37	+2.433	- 4
210	ϵ Orionis	1.75	B o	5 32 42.684	+3.0442	+ 1	- 1 14 40.89	+2.378	- 3
212	β Doradus	3.81	F 5 p	5 33 1.427	+0.5186	- 13	-62 32 5.20	+2.352	- 2
211	ζ Tauri	3.00	B 3 p	5 33 31.205	+3.5857	+ 6	+21 6 7.13	+2.285	- 26
214	[γ Mensae]	5.06	K o	5 34 36.313	-2.3847	+283	-76 23 27.86	+2.514	+298
213	[σ Orionis]	3.78	B o	5 35 16.884	+3.0117	0	- 2 38 18.96	+2.157	- 1
215	α Columbae	2.75	B 5 p	5 37 8.957	+2.1722	- 2	-34 6 36.34	+1.958	- 37
216	\circ Aurigae	5.52	A o	5 40 33.212	+4.6478	- 6	+49 47 53.02	+1.690	- 9
217	[γ Leporis]	3.80	F 8	5 41 35.227	+2.5019	-201	-22 28 11.55	+1.233	-376
218	[130 Tauri]	5.51	F o	5 43 24.790	+3.4987	+ 4	+17 42 17.34	+1.443	- 6
219	ζ Leporis	3.67	A 2	5 43 49.703	+2.7184	- 12	-14 50 47.32	+1.411	- 2
220	α Orionis	2.20	B o	5 44 29.015	+2.8456	+ 4	- 9 41 34.44	+1.353	- 3
221	[ν Aurigae]	4.18	K o	5 46 42.388	+4.1578	- 4	+39 7 48.57	+1.173	+ 11
222	[β Leporis]	3.90	K o	5 48 21.219	+2.5802	+165	-20 53 2.01	+0.365	-653
223	[β Columbae]	3.22	K o	5 48 31.552	+2.1140	+ 34	-35 47 35.83	+1.407	+404
224	α Orionis	0.92	Ma	5 51 26.145	+3.2483	+ 20	+ 7 23 44.52	+0.762	+ 13
226	[η Leporis]	3.77	F o	5 53 15.715	+2.7328	- 27	-14 10 44.74	+0.729	+140
225	δ Aurigae	3.88	K o	5 53 50.729	+4.9406	+100	+54 16 53.86	+0.416	-122
227	β Aurigae	2.07	A o p	5 54 28.056	+4.4019	- 42	+44 56 32.27	+0.476	- 8
228	θ Aurigae	2.71	A o p	5 55 0.974	+4.0922	+ 49	+37 12 34.11	+0.349	- 87
229	η Columbae	4.03	K o	5 57 2.078	+1.8370	+ 22	-42 49 6.30	+0.226	- 34
230	[66 Orionis]	5.70	K o	6 1 19.580	+3.1696	- 6	+ 4 9 49.74	-0.131	- 15
231	[Puppis I G.]	6.22	F 8	6 2 29.240	+1.7268	- 83	-45 2 8.32	+0.014	+232
232	ν Orionis	4.40	B 2	6 3 37.957	+3.4265	+ 11	+14 46 41.06	-0.349	- 31
233	[36 Camelop.]	5.39	K o	6 5 54.547	+6.0358	- 5	+65 44 5.26	-0.546	- 29
235	[β Pictoris]	4.84	B I	6 8 57.190	+1.1671	- 22	-54 57 10.26	-0.790	- 7
236	* γ Geminor.	var.	Ma	6 10 42.779	+3.6224	- 42	+22 31 42.31	-0.950	- 13
234	22 II. Camelop.	4.73	A o	6 11 14.812	+6.6154	+ 14	+69 20 49.60	-1.085	-102
239	[α Mensae]	5.14	K o	6 12 17.531	-1.7914	+234	-74 43 49.01	-1.301	-226
237	[2 Lyncis]	4.42	A o	6 13 32.225	+5.2957	- 7	+59 2 17.89	-1.154	+ 29
238	[α Columbae]	4.51	K o	6 14 5.811	+2.1344	- 6	-35 7 0.22	-1.158	+ 74

Mittlere Sternörter 1931.0

Nr.	N a m e	Gr.	Spektrum	A.R. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".0001	Dekl. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
240	ζ Canis maj.	3.10	B 3	6 ^h 17 ^m 39.814	+ 2.3029	+ 2	−30° 1' 53.96	−1.540	+ 4
241	μ Geminor.	3.19	M a	6 18 47.216	+ 3.6307	+ 48	+22 33 2.28	−1.752	− 111
242	ψ ¹ Aurigae	5.10	K 2	6 19 35.176	+ 4.6231	+ 9	+49 19 30.61	−1.714	− 3
243	β Canis maj.	1.99	B 1	6 19 39.639	+ 2.6420	− 4	−17 55 13.68	−1.715	+ 2
244	8 Monocer.	^{4.48} _{6.54}	A 5	6 20 6.730	+ 3.1800	− 7	+ 4 37 45.23	−1.753	+ 4
245	α Argus	−0.86	F 0	6 22 25.134	+ 1.3315	+ 16	−52 39 26.77	−1.946	+ 11
246	10 Monocer.	4.98	B 3	6 24 33.142	+ 2.9630	− 2	− 4 43 5.44	−2.138	+ 5
247	8 Lynceis	6.05	G 0	6 31 23.347	+ 5.4870	−285	+61 32 39.09	−3.013	− 277
249	ξ ² Canis maj.	4.54	A 0	6 32 9.841	+ 2.5143	+ 5	−22 54 32.59	−2.791	+ 13
251	γ Geminor.	1.93	A 0	6 33 43.599	+ 3.4669	+ 34	+16 27 34.78	−2.985	− 46
250	51 Aurigae	5.71	K 0	6 33 52.764	+ 4.1588	− 18	+39 27 12.34	−3.067	− 114
248	23 H. Camelop.	5.60	F 8	6 34 29.495	+10.2729	−295	+79 38 36.67	−3.627	− 622
252	ν Argus	3.18	B 8	6 35 38.971	+ 1.8356	− 4	−43 8 5.30	−3.125	− 20
253	*S Monocer.	4.68	Oe 5	6 37 10.736	+ 3.3051	+ 6	+ 9 57 39.59	−3.243	− 5
254	ε Geminor.	3.18	G 5	6 39 41.312	+ 3.6927	+ 3	+25 12 3.80	−3.468	− 15
256	ξ Geminor.	3.40	F 5	6 41 25.057	+ 3.3682	− 75	+12 58 16.98	−3.802	− 199
255	[ψ ⁵ Aurigae]	5.34	G 0	6 41 46.135	+ 4.3271	+ 7	+43 38 52.27	−3.479	+ 154
257	*α Canis maj.	−1.58	A 0	6 42 6.548	+ 2.6437	−371	−16 37 13.25	−4.874	−1212
258	18 Monocer.	4.70	K 0	6 44 15.845	+ 3.1297	− 2	+ 2 29 20.12	−3.867	− 20
264	[ζ Mensae]	5.64	A 2	6 45 49.194	− 4.9656	− 34	−80 44 33.18	−3.896	+ 85
259	[43 Camelop.]	5.13	B 5	6 46 16.551	+ 6.4799	+ 16	+68 58 16.44	−4.017	+ 3
262	α Pictoris	3.30	A 5	6 47 29.085	+ 0.6172	−100	−61 52 1.27	−3.867	+ 256
263	[τ Argus]	2.83	K 0	6 48 13.421	+ 1.4887	+ 29	−50 31 55.35	−4.282	− 96
261	θ Geminor.	3.64	A 2	6 48 14.621	+ 3.9566	+ 7	+34 2 45.89	−4.243	− 55
260	[24 H. Camel.]	4.75	K 5	6 50 1.857	+ 8.7764	+216	+77 4 8.47	−4.355	− 14
266	θ Canis maj.	4.25	K 2	6 50 59.052	+ 2.7877	− 94	−11 57 3.59	−4.436	− 13
265	15 Lynceis	4.54	G 0	6 51 18.479	+ 5.2003	− 1	+58 30 55.63	−4.580	− 130
267	[ι Volantis]	5.52	B 8	6 52 14.699	− 0.6819	− 4	−70 52 40.02	−4.518	+ 12
268	ε Canis maj.	1.63	B 1	6 55 54.797	+ 2.3577	0	−28 52 37.77	−4.841	+ 1
269	*ζ Geminor.	var.	G 0 p	7 0 1.092	+ 3.5599	0	+20 40 22.99	−5.192	− 3
270	[ο ² Canis maj.]	3.12	B 5 p	7 0 8.588	+ 2.5054	− 2	−23 43 53.15	−5.200	0
271	γ Canis maj.	4.07	B 5	7 0 38.243	+ 2.7153	+ 8	−15 31 48.77	−5.254	− 12
272	[Carinae 27 G.]	5.30	A 0	7 3 1.069	+ 1.1167	− 24	−56 38 40.20	−5.450	− 7
273	δ Canis maj.	1.98	F 8 p	7 5 35.101	+ 2.4391	− 8	−26 16 57.43	−5.655	+ 3
274	63 Aurigae	5.07	K 2	7 6 54.783	+ 4.1299	+ 45	+39 26 5.49	−5.769	0
275	[J Puppis]	4.47	F 0	7 10 35.518	+ 1.7096	−147	−46 38 36.35	−5.986	+ 91
276	[64 Aurigae]	5.75	A 3	7 13 14.618	+ 4.1757	− 3	+41 0 27.07	−6.294	+ 3
277	λ Geminor.	3.65	A 2	7 14 7.749	+ 3.4491	− 31	+16 39 58.45	−6.415	− 44
278	π Argus	2.74	K 5	7 14 42.298	+ 2.1186	− 14	−36 58 21.76	−6.416	+ 3
279	δ Geminor.	3.51	F 0	7 16 0.270	+ 3.5852	− 11	+22 6 39.44	−6.537	− 10

Nr. 253. Doppelstern, Größe der Komponenten: 6.0 und 8.8. Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach den Elementen von Auwers A. N. 3085

$$1931.0 \quad \Delta\alpha = -0''.153 \quad \Delta\delta = -2''.26$$

$$1932.0 \quad = -0''.140 \quad = -2''.26$$

Nr. 269. Größe: Max. 3.7, Min. 4.3

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
281	δ Volantis	4.02	F 5	7 ^h 16 ^m 52.329	-0.0234	+ 4	-67° 49' 51.85	- 6.610	- 12
280	19 Lynceis seq.	5.61	B 8	7 17 14.706	+4.9018	- 1	+55 24 48.29	- 6.663	- 34
283	[γ Can. maj.]	2.43	B 5 p	7 21 21.932	+2.3731	- 5	-29 10 2.49	- 6.954	+ 13
282	ι Geminor.	3.89	K 0	7 21 26.658	+3.7289	- 83	+27 56 12.49	- 7.059	- 85
285	β Canis min.	3.09	B 8	7 23 24.614	+3.2548	- 31	+ 8 25 46.97	- 7.176	- 40
284	Grb 1308	5.80	K 0	7 23 43.072	+6.2585	- 7	+68 36 32.86	- 7.204	- 44
286	ρ Geminor.	4.18	F 0	7 24 40.591	+3.8614	+122	+31 55 24.31	- 7.056	+ 183
287	*α Geminor.	3.85 1.99	A 0	7 30 11.950	+3.8324	-129	+32 2 30.80	- 7.768	- 81
288	[Pupp. 108 G.]	4.52	F 8	7 31 5.927	+2.5675	- 39	-22 8 46.76	- 7.741	+ 18
289	25 Monocer.	5.17	F 5	7 33 50.891	+2.9834	- 47	- 3 57 20.44	- 7.961	+ 20
290	[f Puppis]	4.62	B 8	7 34 48.868	+2.2195	- 27	-34 48 44.53	- 8.042	+ 16
291	*α Canis min.	0.48	F 5	7 35 41.467	+3.1415	-470	+ 5 24 11.34	- 9.155	-1027
292	24 Lynceis	4.96	A 2	7 37 10.785	+5.0851	- 47	+58 52 25.81	- 8.300	- 53
293	[26 Monocer.]	4.07	K 0	7 37 57.021	+2.8661	- 57	- 9 23 20.47	- 8.330	- 21
294	α Geminor.	3.68	G 5	7 40 17.114	+3.6246	- 15	+24 33 53.76	- 8.548	- 54
295	β Geminor.	1.21	K 0	7 41 5.818	+3.6739	-468	+28 11 39.57	- 8.610	- 52
297	ζ Volantis	3.89	K 0	7 42 40.633	-0.7324	+ 8	-72 26 26.49	- 8.675	+ 8
296	π Geminor.	5.29	K 2	7 43 3.726	+3.8720	- 1	+33 35 11.69	- 8.744	- 31
298	[Pupp. 205 G.]	5.34	G 0	7 48 34.623	+2.7786	- 41	-13 42 49.89	- 9.487	- 343
299	[26 Lynceis]	5.69	K 0	7 49 41.712	+4.3745	- 40	+47 44 42.47	- 9.238	- 6
301	[α Puppis]	3.76	G 5	7 49 50.664	+2.0621	- 18	-40 23 49.18	- 9.242	+ 1
300	Grb 1374	5.56	K 0	7 51 58.370	+7.2135	- 31	+74 6 18.32	- 9.440	- 32
303	χ Argus	3.60	B 3	7 55 1.530	+1.5266	- 32	-52 47 47.43	- 9.619	+ 24
302	[53 Camelop.]	6.00	A 2 p	7 55 49.763	+5.1377	- 30	+60 30 54.06	- 9.726	- 21
304	[27 Monocer.]	5.06	K 0	7 56 17.432	+2.9990	- 27	- 3 29 24.55	- 9.731	+ 9
305	χ Geminor.	5.04	K 0	7 59 17.055	+3.6876	- 15	+27 59 21.10	-10.014	- 46
306	ζ Argus	2.27	O d	8 1 9.474	+2.1079	- 34	-39 48 28.66	-10.099	+ 10
307	27 Lynceis	4.87	A 2	8 3 16.594	+4.5205	- 59	+51 42 26.25	-10.274	- 4
308	ι Navis	2.88	F 5	8 4 36.299	+2.5549	- 64	-24 6 15.94	-10.322	+ 47
309	γ Argus	2.22	O a p	8 7 24.320	+1.8488	- 12	-47 7 57.32	-10.582	- 4
311	20 Navis	5.05	G 5	8 10 9.703	+2.7580	- 8	-15 34 45.55	-10.788	- 6
310	Br 1147	5.73	G 5	8 10 55.309	+7.5774	+ 58	+75 58 13.31	-10.821	+ 17
312	β Cancri	3.76	K 2	8 12 46.514	+3.2550	- 30	+ 9 23 57.82	-11.026	- 52
313	[γ Puppis]	4.43	A 5	8 15 58.241	+2.2444	-104	-36 26 40.83	-11.118	+ 89
314	31 Lynceis	4.43	K 5	8 18 7.162	+4.1135	- 8	+43 24 39.13	-11.469	- 108
315	ε Argus	1.74	K ₀ + B	8 21 6.026	+1.2334	- 32	-59 17 12.82	-11.561	+ 15
316	Br 1197	3.95	A 0	8 22 12.835	+2.9989	- 41	- 3 40 48.69	-11.676	- 21
318	θ Chamael.	4.26	K 0	8 22 44.407	-1.7744	-458	-77 15 45.17	-11.662	+ 31
317	ο Ursae maj.	3.47	G 0	8 24 32.899	+4.9984	-174	+60 57 2.22	-11.931	- 110
319	[β Volantis]	3.65	K 0	8 24 59.518	+0.6576	- 54	-65 54 23.46	-12.029	- 177

Nr. 287. Rektaszension der Mitte, Deklination des folgenden, helleren Sterns. Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach den Elementen von Auwers A. N. 3929

$$1931.0 \quad \Delta\alpha = +0''.061 \quad \Delta\delta = +0''.16$$

$$1932.0 \quad = +0''.065 \quad = +0''.05$$

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in o".0001	Dekl. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in o".0001
320	Grb 1450	6.05	K o	8 ^h 28 ^m 26.226	+3.9048	— 83	+38° 15' 15.97	—12.263	—170
321	η Cancri	5.52	K o	8 28 43.329	+3.4722	— 26	+20 40 36.35	—12.163	— 50
322	[Grb 1446]	6.29	K o	8 32 4.809	+6.7101	— 37	+73 52 23.48	—12.450	—104
323	[Grb 1460]	6.03	K o	8 34 11.510	+4.4537	— 38	+52 57 17.57	—12.526	— 35
324	[ε Velorum]	4.13	A 5	8 35 12.974	+2.1082	— 22	—42 44 49.48	—12.568	— 7
325	[6 Hydrae]	5.15	K 2	8 36 45.306	+2.8420	— 64	—12 13 49.66	—12.668	— 3
326	δ Cancri	4.17	K o	8 40 46.027	+3.4118	— 9	+18 24 32.45	—13.171	—236
327	α Pyxidis	3.70	B 2	8 40 49.127	+2.4103	— 15	—32 56 12.38	—12.927	+ 12
328	ι Cancri	^{6.61} 4.20	A 5 G 5	8 42 31.600	+3.6342	— 12	+29 0 48.60	—13.100	— 47
330	δ Argus	2.01	A o	8 42 47.917	+1.6571	+ 22	—54 27 18.85	—13.164	— 93
329	[ε Hydrae]	3.48	F 8	8 43 7.443	+3.1787	— 126	+ 6 40 23.05	—13.142	— 50
331	[η Chamael.]	5.62	B 9	8 43 42.613	—2.0009	— 151	—78 42 48.26	—13.097	+ 34
332	[γ Pyxidis]	4.19	K 2	8 47 36.189	+2.5462	— 99	—27 27 10.71	—13.293	+ 94
333	[α ² Cancri med.]	5.60	K o	8 50 2.390	+3.6642	+ 31	+30 50 30.66	—13.570	— 26
334	ζ Hydrae	3.30	K o	8 51 44.899	+3.1729	— 64	+ 6 12 33.09	—13.642	+ 12
336	c Carinae	3.98	B 8	8 53 29.146	+1.3617	— 26	—60 22 49.04	—13.713	+ 52
335	ι Ursae maj.	3.12	A 5	8 54 29.610	+4.1154	— 437	+48 18 49.49	—14.075	—247
337	α Cancri	4.27	A 3	8 54 42.967	+3.2832	+ 26	+12 7 33.14	—13.878	— 35
339	ιo Ursae maj.	4.09	F 5	8 56 10.156	+3.9013	— 383	+42 3 25.46	—14.198	—264
338	[ρ Ursae maj.]	4.99	M a	8 56 21.057	+5.4333	— 34	+67 54 0.73	—13.931	+ 15
341	α Ursae maj.	3.68	A o	8 58 55.469	+4.1037	— 27	+47 25 50.26	—14.171	— 65
340	[Grb 1501]	5.68	A 2	8 58 57.830	+4.4056	— 8	+54 33 26.00	—14.107	+ 3
343	α Volantis	4.18	A 5	9 1 21.709	+0.9505	— 8	—66 7 13.79	—14.371	—114
342	[c Velorum]	3.69	K o	9 1 46.322	+2.0667	— 70	—46 49 21.05	—14.310	— 28
344	α ³ Ursae maj.	4.87	F 8	9 4 20.884	+5.2995	— 16	+67 24 59.00	—14.507	— 67
345	λ Argus	2.22	K 5	9 5 27.346	+2.2051	— 33	—43 9 11.83	—14.498	+ 9
346	[36 Lynceis]	5.30	B 8	9 9 17.975	+3.9308	— 18	+43 30 11.91	—14.779	— 42
347	θ Hydrae	3.84	A o	9 10 46.567	+3.1227	+ 89	+ 2 36 22.66	—15.137	—313
348	β Argus	1.80	A o	9 12 27.026	+0.6648	— 304	—69 25 58.10	—14.825	+ 97
349	[38 Lynceis]	3.82	A 2	9 14 33.460	+3.7388	— 18	+37 5 44.38	—15.174	—129
350	*83 Cancri	6.60	F 5	9 15 8.026	+3.3510	— 80	+17 59 55.74	—15.213	—135
351	[ι Argus]	2.25	F o	9 15 14.551	+1.6057	— 35	—58 59 6.86	—15.082	+ 2
352	40 Lynceis	3.30	K 5	9 16 51.455	+3.6592	— 178	+34 41 7.28	—15.165	+ 12
353	α Argus	2.63	B 3	9 19 58.517	+1.8568	— 22	—54 42 55.61	—15.352	+ 2
354	α Hydrae	2.16	K 2	9 24 11.843	+2.9488	— 7	— 8 21 31.20	—15.556	+ 32
355	h Ursae maj.	3.75	F o	9 26 6.657	+4.7473	+ 168	+63 21 53.56	—15.665	+ 28
356	[ε Antliae]	4.64	K 2	9 26 23.742	+2.4751	— 25	—35 38 56.31	—15.722	— 14
359	ψ Argus	3.64	F 5	9 27 58.815	+2.3613	— 172	—40 9 49.98	—15.720	+ 74
358	θ Ursae maj.	3.26	F 8 p	9 28 15.259	+4.0215	— 1027	+51 59 34.22	—16.354	—545
357	d Ursae maj.	4.57	G o	9 28 24.923	+5.3327	— 120	+70 8 6.30	—15.743	+ 75

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
361	[N Velorum]	3.04	K 5	9 ^h 29 ^m 7.519	+1.8233	— 36	—56° 43' 45.72	—15.854	+ 1
360	10 Leon. min.	4.62	G 5	9 30 0.204	+3.6806	+ 13	+36 42 17.70	—15.928	— 26
362	[H. Carinae]	5.52	K 2	9 31 5.975	+0.4594	— 61	—72 46 29.37	—15.977	— 17
363	[Grb 1564]	5.74	K 0	9 36 22.370	+5.1617	—131	+69 33 10.32	—16.309	— 74
364	[α Hydrae]	4.96	B 3	9 36 59.899	+2.8762	— 18	—14 1 6.05	—16.278	— 11
365	[o Leonis]	3.76	F ⁵ ₊ A ₃	9 37 28.231	+3.2037	— 94	+10 12 25.54	—16.329	— 37
366	† Antliae	4.98	F 5 p	9 41 7.477	+2.6735	— 40	—27 27 10.27	—16.440	+ 35
367	ε Leonis	3.12	G 0 p	9 41 56.337	+3.4084	— 31	+24 5 34.02	—16.533	— 17
369	υ Argus	3.15 6.02	F 0	9 45 22.683	+1.5005	— 21	—64 45 5.52	—16.686	— 1
368	υ Ursae maj.	3.89	F 0	9 46 6.029	+4.2795	—379	+59 21 51.67	—16.873	—154
370	6 Sextantis	6.00	A 2	9 47 45.458	+3.0237	+ 8	— 3 55 9.33	—16.829	— 30
371	[u Leonis]	4.10	K 0	9 48 50.627	+3.4149	—162	+26 19 58.04	—16.907	— 56
373	[Hydrae 183 G.]	5.16	M a	9 51 36.948	+2.8304	— 25	—18 40 55.63	—17.047	— 66
372	Grb 1586	5.96	K 0	9 52 15.392	+5.3975	—179	+73 12 31.62	—17.056	— 45
374	[19 Leon. min.]	5.19	F 5	9 53 27.997	+3.6805	—100	+41 23 6.24	—17.093	— 27
375	[φ Argus]	3.70	B 5	9 54 26.258	+2.1044	— 21	—54 14 19.85	—17.113	— 2
377	[η Antliae]	5.25	F 0	9 55 54.493	+2.5723	— 83	—35 33 36.43	—17.201	— 24
376	[12 Sextantis]	6.63	A 5	9 56 8.415	+3.1128	— 47	+ 3 42 55.59	—17.160	+ 27
378	π Leonis	4.89	M a	9 56 34.153	+3.1717	— 21	+ 8 22 33.60	—17.232	— 25
379	η Leonis	3.58	A 0 p	10 3 34.425	+3.2727	— 2	+17 5 59.33	—17.519	— 6
380	α Leonis	1.34	B 8	10 4 41.989	+3.1968	—167	+12 18 18.23	—17.561	— 1
381	λ Hydrae	3.83	K 0	10 7 13.462	+2.9252	—134	—12 0 44.46	—17.753	— 87
382	q Velorum	4.09	A 2	10 11 50.103	+2.5147	—154	—41 46 46.22	—17.808	+ 45
385	[ω Argus]	3.56	B 8	10 12 6.154	+1.4319	— 29	—69 41 41.86	—17.864	0
384	ζ Leonis	3.65	F 0	10 12 51.408	+3.3396	+ 15	+23 45 42.74	—17.901	— 7
383	λ Ursae maj.	3.52	A 2	10 12 56.634	+3.6244	—148	+43 15 34.46	—17.946	— 49
386	μ Ursae maj.	3.21	K 5	10 18 13.593	+3.5801	— 70	+41 50 49.62	—18.076	+ 24
387	30 H. Urs. maj.	4.92	A 0	10 19 10.714	+4.3435	— 25	+65 54 58.31	—18.154	— 18
388	[25 Sextantis]	6.10	B 9	10 19 57.234	+3.0321	— 40	— 3 43 29.38	—18.167	— 2
389	μ Hydrae	4.06	K 5	10 22 45.169	+2.9016	— 85	—16 29 0.73	—18.348	— 82
391	J Carinae	4.08	F 5	10 23 1.708	+1.1923	— 67	—73 40 47.98	—18.293	— 17
390	31 Leon. min.	4.41	K 0	10 23 54.021	+3.4742	— 96	+37 3 41.10	—18.414	—106
392	Lac. α Antliae	4.42	K 5	10 23 59.523	+2.7437	— 62	—30 42 57.44	—18.301	+ 10
393	ε Carinae	4.08	F 0	10 25 20.478	+2.1983	— 32	—58 23 12.29	—18.373	— 14
394	36 Ursae maj.	4.84	F 5	10 26 13.481	+3.8495	—216	+56 20 6.23	—18.423	— 33
396	[ρ Leonis]	3.85	B 0 p	10 29 10.791	+3.1602	— 6	+ 9 39 43.96	—18.496	— 5
395	9 H. Dracon.	5.04	G 5	10 29 16.875	+5.1406	— 96	+76 4 9.48	—18.499	— 4
397	[ρ Carinae]	3.58	B 5 p	10 29 34.080	+2.1317	— 18	—61 19 47.87	—18.499	+ 5
399	[44 Hydrae]	5.32	K 2	10 30 43.898	+2.8532	— 2	—23 23 20.81	—18.522	+ 21
398	[37 Ursae maj.]	5.16	F 0	10 30 43.907	+3.8758	+ 83	+57 26 19.16	—18.507	+ 36

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
400	*[p Velorum]	4.06	M +A ₃	10 ^h 34 ^m 23.713	+2.5156	-183	-47° 52' 1.11	-18.696	- 34
401	[γ Chamael.]	4.10	M a	10 34 40.151	+0.7243	-116	-78 14 58.37	-18.641	+ 30
402	[x Velorum]	4.37	G o	10 36 33.097	+2.3796	- 75	-55 14 37.48	-18.751	- 21
404	33 Sextantis	6.40	K o	10 37 53.609	+3.0523	- 94	- 1 22 42.25	-18.897	-125
403	[35 H. Urs. maj.]	5.23	K o	10 38 9.226	+4.3163	- 19	+69 26 15.73	-18.798	- 18
405	[41 Leon. min.]	5.05	A 2	10 39 40.107	+3.2649	- 80	+23 33 0.81	-18.813	+ 13
406	θ Argus	3.03	B o	10 40 29.466	+2.1374	- 26	-64 1 57.27	-18.846	+ 4
407	42 Leon. min.	5.37	B 9	10 42 2.020	+3.3398	- 15	+31 2 46.52	-18.933	- 37
408	μ Argus	2.84	G 5	10 43 47.730	+2.5751	+ 49	-49 3 19.24	-19.011	- 65
411	[3 ² Chamael.]	4.62	B 3	10 45 9.605	+0.5855	-120	-80 10 33.83	-18.976	+ 9
409	ι Leonis	5.27	A o	10 45 37.940	+3.1548	- 3	+10 54 38.56	-19.029	- 30
410	[ν Hydrae]	3.32	K o	10 46 13.152	+2.9596	+ 66	-15 49 55.97	-18.820	+194
412	[46 Leon. min.]	3.92	K o	10 49 27.542	+3.3596	+ 76	+34 35 14.31	-19.384	-282
414	[ι Antliae]	4.70	K o	10 53 29.914	+2.7934	+ 62	-36 45 59.58	-19.343	-137
413	[Br 1508]	6.26	G 5	10 54 29.307	+4.8414	-258	+78 8 25.42	-19.257	- 26
415	i Velorum	4.56	A 2	10 56 59.063	+2.7498	+ 20	-41 51 19.84	-19.295	- 4
416	β Ursae maj.	2.44	A o	10 57 41.451	+3.6304	+101	+56 45 9.44	-19.282	+ 26
417	α Ursae maj.	1.95	K o	10 59 29.150	+3.7148	-174	+62 7 25.82	-19.421	- 72
418	χ Leonis	4.66	F o	11 1 27.552	+3.0956	-231	+ 7 42 33.90	-19.439	- 46
419	[χ Hydrae]	5.06	F 5	11 2 0.226	+2.8876	-154	-26 55 15.16	-19.413	- 7
420	ψ Ursae maj.	3.15	K o	11 5 47.542	+3.3789	- 57	+44 52 23.36	-19.522	- 36
421	β Crateris	4.52	A 2	11 8 15.715	+2.9493	0	-22 26 55.55	-19.633	- 98
422	δ Leonis	2.58	A 3	11 10 26.517	+3.1930	+106	+20 54 7.22	-19.714	-136
423	θ Leonis	3.41	A o	11 10 37.287	+3.1495	- 43	+15 48 25.19	-19.662	- 81
424	[Grb 1757]	5.97	K o	11 12 49.056	+3.3870	- 97	+49 51 10.84	-19.643	- 22
425	ν Ursae maj.	3.71	K o	11 14 45.439	+3.2446	- 16	+33 28 15.67	-19.633	+ 22
426	δ Crateris	3.82	K o	11 15 53.348	+2.9984	- 88	-14 24 17.75	-19.474	+200
427	σ Leonis	4.13	A o	11 17 34.771	+3.0943	- 62	+ 6 24 27.91	-19.714	- 12
428	π Centauri	4.26	B 5	11 17 51.204	+2.7311	- 41	-54 6 45.66	-19.719	- 13
429	Grb 1771	5.98	A o	11 18 46.315	+3.5779	- 10	+64 42 30.25	-19.686	+ 34
430	[ι Leonis]	4.03	F 5	11 20 19.708	+3.1279	+106	+10 54 33.95	-19.828	- 84
431	[γ Crateris]	4.14	A 5	11 21 25.957	+2.9960	- 72	-17 18 17.01	-19.754	+ 7
432	[58 Ursae maj.]	5.88	F 8	11 26 47.535	+3.2520	- 43	+43 33 7.57	-19.762	+ 72
433	λ Draconis	4.06	M a	11 27 19.777	+3.5785	- 79	+69 42 43.44	-19.862	- 21
434	ξ Hydrae	3.72	G 5	11 29 36.230	+2.9480	-167	-31 28 32.44	-19.911	- 43
435	[C ² Centauri]	5.42	F o	11 32 34.442	+2.9016	+ 13	-47 15 31.66	-19.948	- 47
436	λ Centauri	3.34	B 9	11 32 35.319	+2.7590	- 58	-62 38 16.56	-19.918	- 17
437	ν Leonis	4.47	K o	11 33 24.945	+3.0718	+ 1	- 0 26 33.78	-19.874	+ 36
438	[π Chamael.]	5.74	F o	11 34 24.339	+2.4685	-280	-75 30 51.91	-19.924	- 5
439	[o Hydrae]	4.88	B 8	11 36 46.915	+2.9775	- 30	-34 21 43.55	-19.941	+ 1

Nr.	N a m e	Gr.	Spektrum	A.R. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew.in 0".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew.in 0".001
440	3 Draconis	5.48	K o	11 ⁿ 38 ^m 38.469	+3.3599	— 78	+67° 7' 37".08	—19.918	+ 40
442	[λ Muscae]	3.80	A 5	11 42 20.344	+2.8228	—153	—66 20 46.40	—19.965	+ 20
441	χ Ursae maj.	3.85	K o	11 42 24.879	+3.1740	—133	+48 9 43.21	—19.966	+ 20
443	[Centauri 65 G.]	4.22	G o	11 43 9.998	+2.8950	— 25	—60 47 41.37	—20.025	— 35
444	β Leonis	2.23	A 2	11 45 32.509	+3.0613	—341	+14 57 28.21	—20.122	—118
445	β Virginis	3.80	F 8	11 47 6.063	+3.1252	+494	+ 2 9 12.86	—20.289	—276
446	[B Centauri]	4.71	K o	11 47 41.155	+2.9906	—111	—44 47 23.34	—20.061	— 46
447	γ Ursae maj.	2.54	A o	11 50 12.617	+3.1624	+107	+54 4 42.02	—20.024	+ 2
448	[ε Chamael.]	5.05	B 9	11 56 10.287	+2.9531	—162	—77 50 15.35	—20.050	— 9
449	[Centauri 88 G.]	5.28	F o	12 0 4.635	+3.1000	+267	—42 2 51.89	—20.167	—122
450	ο Virginis	4.24	G 5	12 1 41.701	+3.0566	—147	+ 9 6 57.89	—20.006	+ 38
451	[Grb 1852]	5.96	K o	12 1 46.153	+3.0707	+436	+77 17 29.53	—20.140	— 96
452	δ Centauri	2.88	B 3 p	12 4 46.408	+3.1021	— 44	—50 20 17.39	—20.058	— 18
453	ε Corvi	3.21	K o	12 6 34.348	+3.0835	— 51	—22 14 9.78	—20.025	+ 11
454	4 H. Draconis	5.12	A 5	12 8 59.324	+2.8287	+ 23	+77 59 58.61	—20.006	+ 23
455	[δ Crucis]	3.08	B 3	12 11 28.183	+3.1764	— 51	—58 21 55.15	—20.046	— 27
456	δ Ursae maj.	3.44	A 2	12 12 1.227	+2.9768	+135	+57 24 57.00	—20.014	+ 3
457	[γ Corvi]	2.78	B 8	12 12 15.278	+3.0837	—112	—17 9 32.19	—19.999	+ 17
458	[2 Can. ven.]	5.80	K 5	12 12 40.446	+3.0112	+ 26	+41 2 38.54	—20.059	— 45
459	β Chamael.	4.38	B 5	12 14 15.585	+3.4833	—143	—78 55 45.05	—19.993	+ 12
460	η Virginis	4.00	A o	12 16 22.503	+3.0692	— 42	— 0 17 0.56	—20.016	— 23
461	[6 Can. ven.]	5.22	K o	12 22 27.246	+2.9588	— 67	+39 24 4.55	—19.984	— 36
462	α Crucis med.	1.58 2.09	B 1	12 22 45.046	+3.3253	— 44	—62 43 2.25	—19.977	— 31
463	[Hydr. 323 G.]	5.68	A o	12 23 13.150	+3.1574	— 14	—32 26 52.59	—19.990	— 49
464	[σ Centauri]	4.16	B 3	12 24 17.944	+3.2370	— 36	—49 50 55.53	—19.964	— 33
466	20 Comae	5.72	A 2	12 26 15.405	+3.0160	+ 26	+21 16 40.63	—19.952	— 39
465	δ Corvi	3.11	A o	12 26 17.471	+3.1027	—145	—16 7 53.33	—20.055	—142
467	[74 Ursae maj.]	5.44	A 5	12 26 44.377	+2.8066	— 96	+58 47 6.65	—19.820	+ 88
468	[γ Crucis]	1.61	M b	12 27 19.559	+3.3177	+ 26	—56 43 37.65	—20.180	—278
469	[γ Muscae]	4.04	B 5	12 28 19.412	+3.5643	— 82	—71 45 7.82	—19.913	— 22
470	8 Can. ven.	4.32	G o	12 30 28.237	+2.8525	—624	+41 43 55.49	—19.587	+280
472	z Draconis	3.88	B 5 p	12 30 32.889	+2.5688	—117	+70 10 6.05	—19.859	+ 7
471	β Corvi	2.84	G 5	12 30 45.477	+3.1484	— 4	—23 0 55.46	—19.923	— 59
473	24 Comae seq.	5.18	K o	12 31 40.222	+3.0106	+ 2	+18 45 24.01	—19.835	+ 18
474	α Muscae	2.94	B 3	12 33 2.983	+3.5613	— 56	—68 45 20.70	—19.868	— 32
475	[χ Virginis]	4.78	K o	12 35 40.994	+3.0957	— 49	— 7 36 58.32	—19.839	— 37
476	γ Centauri	2.38	A o	12 37 42.052	+3.3005	—205	—48 34 52.08	—19.793	— 20
477	[γ Virgin. med.]	3.65 3.68	F o F o	12 38 9.766	+3.0395	—375	— 1 4 16.64	—19.762	+ 5
478	76 Ursae maj.	5.92	A o	12 38 33.519	+2.6275	— 45	+63 5 29.96	—19.778	— 17
479	[Hydr. 330 G.]	5.73	K 2	12 40 19.560	+3.1944	— 26	—27 56 44.42	—19.785	— 50

Nr.	N a m e	Gr.	Spektrum	A.R. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
480	[β Muscae]	3.26	B 3	12 42 ^m 1.749	+3.6627	— 53	—67° 43' 50.77	—19.739	— 31
481	β Crucis	1.50	B 1	12 43 40.498	+3.4935	— 59	—59 18 42.84	—19.708	— 27
482	α Centauri	4.34	A 5	12 49 36.397	+3.3166	+ 45	—39 48 14.83	—19.614	— 37
483	ε Ursae maj.	1.68	A o p	12 50 59.971	+2.6438	+136	+56 20 2.48	—19.561	— 11
484	δ Virginis	3.66	M a	12 52 7.613	+3.0215	—315	+ 3 46 19.11	—19.591	— 63
486	8 Draconis	5.27	F o	12 52 44.085	+2.3928	— 15	+65 48 44.96	—19.549	— 34
485	12 Can. ven. sq.	2.90	A o p	12 52 48.204	+2.8086	—199	+38 41 26.33	—19.464	+ 50
487	[δ Muscae]	3.63	K 2	12 57 29.616	+4.0991	+530	—71 10 37.93	—19.453	— 36
488	ε Virginis	2.95	K o	12 58 44.527	+2.9866	—185	+11 19 46.65	—19.372	+ 18
489	[ε ² Centauri]	4.40	B 3	13 2 52.277	+3.4938	— 35	—49 32 14.16	—19.324	— 30
490	θ Virginis	4.44	A o	13 6 22.511	+3.1050	— 24	— 5 10 16.02	—19.249	— 39
491	[17 Can. ven.]	6.04	F o	13 6 53.295	+2.7571	— 59	+38 51 54.37	—19.165	+ 32
492	43 Comae	4.32	G o	13 8 39.316	+2.8010	—602	+28 13 38.92	—18.273	+878
493	[η Muscae]	4.95	B 8	13 10 33.091	+4.0485	— 33	—67 31 46.56	—19.131	— 30
494	[20 Can. ven.]	4.66	F o	13 14 27.100	+2.6923	—107	+40 56 7.04	—18.988	+ 8
495	γ Hydrae	3.33	G 5	13 15 9.969	+3.2591	+ 51	—22 48 29.18	—19.029	— 53
496	ι Centauri	2.91	A 2	13 16 42.605	+3.3666	—294	—36 20 56.04	—19.024	— 92
497	ζ Urs. maj. pr.	2.40	A 2 p	13 21 9.068	+2.4185	+143	+55 17 6.95	—18.826	— 25
498	α Virginis	1.21	B 2	13 21 33.297	+3.1590	— 28	—10 48 6.18	—18.822	— 33
499	Grb 2001	6.07	K 5	13 24 22.350	+1.5277	+ 35	+72 44 58.01	—18.716	— 15
500	69 H. Urs. maj.	5.41	A o	13 25 55.330	+2.2040	—109	+60 18 6.38	—18.615	+ 37
501	ζ Virginis	3.44	A 2	13 31 10.531	+3.0561	—190	— 0 14 37.59	—18.444	+ 35
502	17 H. Can. ven.	4.96	F o	13 31 43.050	+2.6793	+ 64	+37 32 7.29	—18.474	— 13
503	[Chamael. 49 G.]	6.44	A o	13 33 14.819	+5.0883	— 49	—75 19 57.75	—18.422	— 14
504	ε Centauri	2.56	B 1	13 35 30.126	+3.7900	— 37	—53 6 59.04	—18.363	— 34
505	[Grb 2029]	5.67	K o	13 35 31.372	+1.4388	— 86	+71 35 35.25	—18.329	0
506	[ι Centauri]	4.36	F 5	13 41 45.578	+3.4043	—371	—32 41 43.90	—18.257	—156
507	τ Bootis	4.51	F 5	13 43 58.987	+2.8508	—340	+17 47 59.77	—17.988	+ 28
509	η Ursae maj.	1.91	B 3	13 44 49.469	+2.3662	—119	+49 39 25.39	—18.004	— 20
508	[μ Centauri]	3.32	B 2 p	13 45 27.023	+3.6068	— 28	—42 7 50.06	—17.979	— 19
510	89 Virginis	5.11	K o	13 46 7.112	+3.2575	— 69	—17 47 27.97	—17.972	— 38
511	[ι Draconis]	4.77	M a	13 49 25.021	+1.7524	0	+65 3 49.54	—17.805	— 2
512	ζ Centauri	3.06	B 2 p	13 51 13.411	+3.7332	— 70	—46 56 58.60	—17.790	— 61
513	η Bootis	2.80	G o	13 51 23.963	+2.8569	— 41	+18 44 34.47	—18.086	—364
514	[Cent. 294 G.]	4.68	K o	13 52 38.130	+4.3248	— 46	—63 20 57.35	—17.707	— 35
515	[47 Hydrae]	5.17	B 8	13 54 38.547	+3.3634	— 34	—24 38 10.58	—17.628	— 40
517	11 Bootis	6.12	A 3	13 58 2.820	+2.7214	— 57	+27 43 8.82	—17.436	+ 8
516	τ Virginis	4.34	A 2	13 58 8.002	+3.0526	+ 13	+ 1 52 39.45	—17.470	— 30
518	β Centauri	0.86	B 1	13 58 56.216	+4.2199	— 28	—60 2 28.41	—17.445	— 40
519	[π Hydrae]	3.48	K o	14 2 26.178	+3.4129	+ 30	—26 21 3.18	—17.404	—153

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
521	α Draconis	3.64	A o p	14 ^h 2 ^m 31.205	+1.6240	— 83	+64° 42' 18.81	—17.231	+ 16
520	θ Centauri	2.26	K o	14 2 36.810	+3.5246	— 439	—36 1 53.16	—17.774	— 530
522	d Bootis	4.82	F 5	14 7 15.174	+2.7370	— 12	+25 25 3.93	—17.102	— 69
524	4 Ursae min.	5.00	K o	14 9 5.229	—0.2585	— 112	+77 52 18.37	—16.916	+ 32
523	α Virginis	4.31	K o	14 9 12.712	+3.1987	+ 4	— 9 57 12.17	—16.808	+ 134
525	ι Virginis	4.16	F 5	14 12 23.586	+3.1440	— 13	— 5 40 19.56	—17.223	— 431
526	α Bootis	0.24	K o	14 12 30.810	+2.7362	— 776	+19 32 27.21	—18.787	—2001
528	[ι Bootis]	4.78	A 5	14 13 43.399	+2.1254	— 159	+51 41 5.58	—16.642	+ 86
527	λ Bootis	4.26	A o	14 13 45.722	+2.2818	— 177	+46 24 15.98	—16.574	+ 152
529	[ν Centauri]	4.41	B 5	14 15 29.303	+4.1753	— 47	—56 4 11.80	—16.682	— 39
530	[Circini 10 G.]	5.71	A 2 p	14 19 21.191	+4.9472	— 41	—67 52 58.95	—16.487	— 36
531	θ Bootis	4.06	F 8	14 22 50.906	+2.0429	— 256	+52 10 8.49	—16.680	— 405
532	[52 Hydrae]	5.00	B 8	14 24 7.531	+3.5091	— 28	—29 10 57.14	—16.240	— 30
533	[φ Virginis]	4.97	K o	14 24 38.708	+3.0903	— 90	+ 1 55 10.40	—16.190	— 7
534	ρ Bootis	3.78	K o	14 28 51.401	+2.5860	— 76	+30 40 24.54	—15.850	+ 113
535	γ Bootis	3.00	F o	14 29 18.021	+2.4166	— 93	+38 36 33.41	—15.795	+ 144
536	[Grb 2125]	6.18	F o	14 29 50.385	+1.6288	— 58	+60 31 45.02	—15.892	+ 18
537	η Centauri	2.65	B ₃ P +A ₂ p	14 31 6.990	+3.8027	— 36	+41 51 20.89	—15.879	— 36
538	* α Centauri	0.33 1.70	G o K 5	14 34 53.884	+4.0653	—4883	—60 33 6.21	—14.929	+ 709
540	[33 Bootis]	5.39	A o	14 36 16.170	+2.2327	— 67	+44 42 5.76	—15.588	— 26
539	[α Circini]	3.41	F o	14 36 54.326	+4.8267	— 320	—64 40 33.51	—15.766	— 239
541	[α Lupi]	2.89	B 2	14 37 19.804	+3.9821	— 20	—47 5 35.91	—15.540	— 36
543	ζ Bootis med.	4.83 4.43	A 2	14 37 51.177	+2.8645	+ 37	+14 1 23.90	—15.501	— 27
542	α Apodis	3.81	K 5	14 39 11.816	+7.3691	— 56	—78 45 14.78	—15.435	— 35
545	μ Virginis	3.95	F 5	14 39 25.263	+3.1601	+ 69	— 5 21 33.38	—15.714	— 326
544	[ϵ Centauri]	4.13	K o	14 39 25.760	+3.6637	— 61	—34 52 40.02	—15.585	— 198
546	[δ Lupi]	5.20	K o	14 42 10.948	+4.1860	— 24	—52 5 33.96	—15.324	— 92
547	109 Virginis	3.76	A o	14 42 45.520	+3.0322	— 75	+ 2 10 57.18	—15.238	— 39
548	α Librae	2.90	A 3	14 47 3.423	+3.3163	— 77	—15 45 22.08	—15.024	— 74
549	Grb 2164	5.67	K 2	14 49 41.162	+1.5211	— 170	+59 34 25.51	—14.667	+ 129
550	β Ursae min.	2.24	K 5	14 50 53.205	—0.1901	— 78	+74 26 14.94	—14.719	+ 7
551	Pi XIV, 221	5.77	A o	14 52 57.764	+2.8313	— 10	+14 43 26.50	—14.620	— 18
552	β Lupi	2.81	B 2 p	14 54 0.124	+3.9213	— 51	—42 51 26.64	—14.600	— 60
553	[α Centauri]	3.35	B 3	14 54 39.822	+3.8966	— 21	—41 49 42.92	—14.533	— 33
554	[2 H. Urs. min.]	4.86	M b	14 56 28.735	+0.9483	— 147	+66 12 25.23	—14.356	+ 34
555	β Bootis	3.63	G 5	14 59 20.813	+2.2600	— 36	+40 39 42.40	—14.257	— 43
556	γ Scorpii	3.41	M b	15 0 1.573	+3.5081	— 57	—25 0 43.41	—14.227	— 55
557	ψ Bootis	4.67	K o	15 1 29.324	+2.5707	— 131	+27 12 56.51	—14.096	— 15
558	ζ Lupi	3.50	K o	15 7 18.892	+4.2998	— 133	—51 50 16.70	—13.787	— 73
559	[ι Librae]	4.66	A o p	15 8 17.013	+3.4168	— 32	—19 31 54.60	—13.699	— 47

Nr. 538. Schwerpunkt des Systems. Abstand vom Schwerpunkt nach den Elementen von Lohse in den Publ. d. Astrophys. Obs. Potsdam No. 58

heller Stern: 1931.0 $\Delta\alpha = +0^s.333$ $\Delta\delta = +0''.49$

1932.0 $= +0.305$ $= +0.10$

Nr.	N a m e	Gr.	Spektrum	A.R. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
562	[3 Serpentis]	5.44	K 0	15 11 45.466	+2.9815	— 12	+ 5 11 39.66	—13.435	— 7
561	[β Circini]	4.16	A 3	15 12 5.756	+4.6839	—130	—58 32 42.33	—13.555	— 149
560	γ Triang. austr.	3.06	A 0	15 12 26.454	+5.5787	—101	—68 25 35.35	—13.420	— 37
563	δ Bootis	3.54	K 0	15 12 43.261	+2.4193	+ 73	+33 34 16.60	—13.487	— 121
564	β Librae	2.74	B 8	15 13 17.460	+3.2269	— 64	— 9 7 46.27	—13.355	— 27
565	ι H. Urs. min.	5.23	G 0	15 13 50.360	+0.6839	+387	+67 36 30.40	—13.687	— 396
566	φ ¹ Lupi	3.59	K 5	15 17 25.224	+3.8017	— 82	—36 0 44.77	—13.151	— 95
569	γ Ursae min.	3.14	A 2	15 20 49.420	—0.1053	— 32	+72 4 46.22	—12.813	+ 16
568	μ Bootis	4.47 6.66	F 0 K 0	15 21 53.000	+2.2663	—123	+37 37 5.69	—12.677	+ 80
570	[τ ¹ Serpentis]	5.46	M a	15 22 35.315	+2.7820	— 11	+15 40 10.06	—12.733	— 24
571	ι Draconis	3.47	K 0	15 23 23.535	+1.3336	— 5	+59 12 26.09	—12.641	+ 14
567	[x ¹ Apodis]	5.65	B 5 p	15 23 57.168	+6.5022	+ 5	—73 9 9.06	—12.655	— 37
572	β Coron. bor.	3.72	F 0 p	15 24 59.043	+2.4740	—131	+29 20 33.12	—12.472	+ 76
573	ν ¹ Bootis	5.15	K 5	15 28 27.027	+2.1550	+ 10	+41 4 2.60	—12.322	— 13
576	[θ Coron. bor.]	4.17	B 5	15 30 8.797	+2.4189	— 17	+31 35 27.25	—12.218	— 26
574	[ε Triang. austr.]	4.11	K 0	15 30 22.878	+5.4698	+ 29	—66 5 13.42	—12.257	— 82
575	γ Lupi	2.95	B 3	15 30 32.032	+3.9915	— 26	—40 56 10.76	—12.205	— 39
577	γ Librae	4.02	K 0	15 31 39.777	+3.3541	+ 43	—14 33 38.29	—12.083	+ 3
578	α Coron. bor.	2.31	A 0	15 31 45.955	+2.5401	+ 93	+26 56 45.04	—12.177	— 98
579	[3 H. Scorpil]	3.78	K 2	15 32 49.788	+3.6385	— 11	—27 54 28.66	—12.015	— 11
580	[φ Bootis]	5.41	G 5	15 35 20.907	+2.1548	+ 58	+40 34 37.76	—11.776	+ 52
581	[γ Coron. bor.]	3.93	A 0	15 39 50.694	+2.5197	— 74	+26 30 47.08	—11.474	+ 34
582	α Serpentis	2.75	K 0	15 40 52.060	+2.9542	+ 91	+ 6 38 29.53	—11.392	+ 42
583	β Serpentis	3.74	A 2	15 43 0.137	+2.7688	+ 51	+15 38 11.66	—11.335	— 54
587	[12 H. Dracon.]	5.13	A 2	15 45 36.589	+0.9115	+ 55	+62 48 44.51	—11.153	— 61
584	α Serpentis	4.28	K 5	15 45 37.989	+2.7005	— 31	+18 21 12.48	—11.188	— 98
585	μ Serpentis	3.63	A 0	15 46 1.010	+3.1297	— 59	— 3 13 13.26	—11.094	— 32
590	ζ Ursae min.	4.34	A 2	15 46 28.935	—2.1742	+ 60	+78 0 27.36	—11.029	— 1
586	[χ Lupi]	4.11	B 9	15 46 34.061	+3.8078	— 15	—33 25 5.95	—11.052	— 30
588	ε Serpentis	3.75	A 2	15 47 22.482	+2.9897	+ 84	+ 4 41 3.13	—10.903	+ 59
589	β Triang. austr.	3.04	F 0	15 49 2.736	+5.2721	—278	—63 13 10.81	—11.247	— 407
591	[γ Serpentis]	3.86	F 5	15 53 15.881	+2.7706	+213	+15 53 8.02	—11.822	—1294
592	[π Scorpil]	3.00	B 2	15 54 40.350	+3.6261	— 15	—25 55 1.32	—10.460	— 37
593	ε Coron. bor.	4.22	K 0	15 54 43.788	+2.4832	— 61	+27 4 35.69	—10.487	— 68
595	[Grb 2296]	4.96	A 5	15 56 9.017	+1.4211	—187	+54 56 38.83	—10.202	+ 111
594	δ Scorpil	2.54	B 0	15 56 14.965	+3.5452	— 8	—22 25 36.74	—10.341	— 36
598	θ Draconis	4.11	F 8	16 0 35.622	+1.1228	—402	+58 44 56.70	— 9.638	+ 339
597	β Scorpil	2.90 5.06	B 1	16 1 25.256	+3.4861	— 7	—19 37 5.00	— 9.941	— 27
596	[δ Normae]	4.84	A 3 p.	16 1 36.371	+4.2338	— 5	—44 59 16.37	— 9.894	+ 6
599	[θ Lupi]	4.33	B 3	16 2 3.256	+3.9344	— 29	—36 36 57.71	— 9.907	— 41

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
601	[φ Herculis]	4.26	B 9 p	16 ^h 6 ^m 35.686	+1.8899	— 23	+45° 6' 53.73	—9.487	+ 31
600	[x Normae]	5.09	K o	16 8 1.387	+4.7201	— 42	—54 27 15.27	—9.474	— 65
602	[δ Triang. austr.]	4.03	G o	16 9 8.500	+5.4476	+ 8	—63 30 41.41	—9.348	— 26
603	δ Ophiuchi	3.03	M a	16 10 43.651	+3.1429	— 30	— 3 31 4.94	—9.349	—150
606	19 Ursae min.	5.51	B 8	16 12 45.983	—1.7295	— 4	+76 3 7.15	—9.028	+ 12
604	γ ² Normae	4.14	K o	16 14 40.007	+4.4806	—190	—49 59 16.92	—8.953	— 61
605	ε Ophiuchi	3.34	K o	16 14 40.081	+3.1730	+ 53	— 4 31 32.66	—8.860	+ 31
607	[σ Scorpil]	3.08	B 1	16 16 59.412	+3.6440	— 11	—25 25 43.87	—8.742	— 33
608	τ Herculis	3.91	B 5	16 17 39.941	+1.8030	— 9	+46 28 36.59	—8.623	+ 32
609	γ Herculis	3.79	F o	16 18 52.498	+2.6458	— 36	+19 18 50.40	—8.520	+ 40
612	[η Ursae min.]	5.04	F o	16 19 29.868	—1.7710	—219	+75 54 54.32	—8.255	+256
610	[ζ Triang. austr.]	4.93	G o	16 21 1.223	+6.4315	+366	—69 55 53.49	—8.306	+ 84
613	[ω Herculis]	4.53	A o p	16 22 13.816	+2.7681	+ 28	+14 11 26.86	—8.362	— 68
611	γ Apodis	3.90	K o	16 22 48.537	+9.1550	—384	—78 44 44.56	—8.319	— 71
614	[Grb 2343]	5.66	A 2	16 22 54.690	+1.3116	+ 19	+55 21 40.99	—8.221	+ 18
615	η Draconis	2.89	G 5	16 23 3.138	+0.8099	— 28	+61 40 12.16	—8.168	+ 61
616	α Scorpil	1.22	M a + A ₃	16 25 10.370	+3.6764	— 7	—26 16 49.69	—8.087	— 28
618	β Herculis	2.81	K o	16 27 15.167	+2.5787	— 69	+21 38 19.55	—7.913	— 21
617	[λ Ophiuchi]	3.85	A o	16 27 25.891	+3.0249	— 23	+ 2 8 0.40	—7.968	— 90
619	Δ Draconis	4.98	B 8 p	16 28 6.538	—0.1235	— 51	+68 55 2.87	—7.788	+ 35
620	[τ Scorpil]	2.91	B o	16 31 34.970	+3.7322	— 11	—28 4 28.29	—7.576	— 33
621	σ Herculis	4.25	A o	16 31 52.680	+1.9341	— 6	+42 34 42.28	—7.480	+ 38
622	ζ Ophiuchi	2.70	B o	16 33 21.427	+3.3024	+ 9	—10 25 43.62	—7.376	+ 22
623	[Grb 2373]	6.39	G 5	16 33 34.975	—2.6029	—321	+77 35 5.66	—7.106	+274
624	[24 Scorpil]	5.04	K o	16 37 34.762	+3.4681	— 18	—17 36 36.32	—7.057	— 3
626	η Herculis	3.61	K o	16 40 31.794	+2.0568	+ 35	+39 3 9.31	—6.896	— 84
625	α Triang. austr.	1.88	K 2	16 41 20.398	+6.3379	+ 32	—68 54 13.45	—6.794	— 49
627	Grb 2377	4.88	F o	16 43 59.173	+1.1373	+ 28	+56 54 16.36	—6.469	+ 58
628	ε Scorpil	2.36	K o	16 45 41.360	+3.8827	—501	—34 10 10.48	—6.641	—255
629	49 Herculis	6.41	A o p	16 48 56.311	+2.7310	+ 12	+15 5 19.18	—6.122	— 6
630	ζ ² Scorpil	3.75	K 5	16 49 43.277	+4.2165	—133	—42 14 41.75	—6.289	—238
631	ζ Arae	3.06	K 5	16 52 54.129	+4.9585	— 30	—55 52 59.83	—5.832	— 48
632	[ε ¹ Arae]	4.15	K 2	16 54 4.547	+4.7749	— 19	—53 3 23.79	—5.695	— 8
633	κ Ophiuchi	3.42	K o	16 54 24.061	+2.8390	—198	+ 9 28 51.50	—5.672	— 13
634	ε Herculis	3.92	A o	16 57 38.940	+2.2952	— 35	+31 1 36.93	—5.362	+ 24
635	[60 Herculis]	4.91	A 3	17 2 10.646	+2.7815	+ 34	+12 50 3.34	—5.019	— 15
636	[Grb 2415]	6.27	A 2	17 5 31.639	+1.9567	— 29	+40 36 19.36	—4.748	— 28
637	η Ophiuchi	2.63	A 2	17 6 25.118	+3.4392	+ 23	—15 38 27.74	—4.553	+ 90
638	[η Scorpil]	3.44	F 2	17 7 12.420	+4.2942	+ 17	—43 9 0.40	—4.875	—298
639	ζ Draconis	3.22	B 5	17 8 34.986	+0.1713	— 29	+65 47 58.27	—4.438	+ 22

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
640	α Herculis	M 3-48 5.39	M b	17 ^h 11 ^m 30.013	+2.7350	— 8	+14 ^s 28 ^s 3.53	—4.181	+ 29
641	δ Herculis	3.16	A 2	17 12 11.805	+2.4641	— 15	+24 55 9.93	—4.309	—159
643	π Herculis	3.36	K 5	17 12 38.590	+2.0894	— 21	+36 53 9.34	—4.111	+ 1
642	[ϵ Apodis]	5.60	B 8	17 14 23.311	+6.6810	— 14	—70 3 12.63	—3.989	— 27
644	θ Ophiuchi	3.37	B 3	17 17 46.166	+3.6829	— 7	—24 55 56.27	—3.697	— 25
645	β Arae	2.80	K 2	17 19 33.534	+4.9833	— 14	—55 28 0.87	—3.560	— 42
646	[d Ophiuchi]	4.37	F 5	17 22 56.725	+3.8291	+ 6	—29 48 22.60	—3.372	—145
647	[27 H. Ophiuchi]	4.61	F 0	17 22 58.158	+3.1831	— 58	— 5 1 37.61	—3.275	— 51
648	δ Arae	3.79	B 8	17 24 51.904	+5.4124	— 70	—60 37 42.65	—3.162	—101
650	[x Herculis]	5.81	A 2	17 24 54.463	+1.5900	+ 2	+48 19 1.21	—3.076	— 19
649	[ν Scorpii]	2.80	B 3	17 26 4.063	+4.0753	— 24	—37 14 33.35	—2.996	— 39
651	α Arae	2.97	B 3 p	17 26 30.232	+4.6348	— 38	—49 49 25.14	—3.013	— 94
653	β Draconis	2.99	G 0	17 28 52.366	+1.3552	— 15	+52 21 6.36	—2.704	+ 10
652	λ Scorpii	1.71	B 2	17 28 55.184	+4.0713	— 14	—37 3 18.83	—2.742	— 32
655	[ν^1 Draconis]	4.98	A 5	17 30 48.999	+1.1812	+176	+55 13 50.77	—2.495	+ 51
657	[ν^2 Draconis]	4.95	A 5	17 30 54.428	+1.1825	+181	+55 13 9.61	—2.486	+ 52
656	α Ophiuchi	2.14	A 5	17 31 43.828	+2.7842	+ 80	+12 36 31.99	—2.699	—233
659	[f Draconis]	5.21	K 0	17 32 14.186	—0.2433	— 33	+68 10 44.71	—2.288	+134
654	ψ Scorpii	2.04	F 0	17 32 21.428	+4.3081	0	—42 57 21.37	—2.430	— 18
658	ξ Serpentis	3.64	A 5	17 33 38.036	+3.4340	— 34	—15 21 24.16	—2.365	— 65
664	ω Draconis	4.87	F 5	17 37 21.154	—0.3526	+ 10	+68 47 24.06	—1.654	+323
663	ϵ Herculis	3.79	B 3	17 37 30.977	+1.6933	— 5	+46 2 31.57	—1.967	— 4
660	[x Scorpii]	2.51	B 2	17 37 42.693	+4.1483	— 15	—38 59 46.20	—1.973	— 26
662	[μ Arae]	5.26	G 5	17 38 39.758	+4.7608	— 29	—51 47 57.97	—2.072	—208
661	η Pavonis	3.58	K 0	17 38 57.326	+5.8849	— 22	—64 41 35.51	—1.894	— 56
665	β Ophiuchi	2.94	K 0	17 40 3.781	+2.9632	— 27	+ 4 35 40.77	—1.588	+153
666	[ν^1 Scorpii]	3.14	F 5 p	17 42 45.353	+4.1940	— 10	—40 6 7.13	—1.509	— 3
670	ψ Draconis	4.90 6.07	F 5	17 43 9.658	—1.0706	+ 31	+72 10 59.51	—1.738	—267
667	μ Herculis	3.48	G 5	17 43 45.404	+2.3473	—240	+27 45 35.64	—2.170	—751
668	[γ Ophiuchi]	3.74	A 0	17 44 25.925	+3.0077	— 16	+ 2 43 54.49	—1.438	— 77
669	[G Scorpii]	3.25	K 2	17 45 9.589	+4.0828	+ 41	—37 1 23.18	—1.271	+ 26
671	ξ Draconis	3.90	K 0	17 52 20.124	+1.0375	+120	+56 52 58.62	—0.594	+ 77
675	35 Draconis	5.04	F 5	17 52 32.100	—2.6886	+112	+76 58 23.26	—0.411	+241
672	θ Herculis	3.99	K 0	17 53 53.167	+2.0572	+ 4	+37 15 31.21	—0.530	+ 5
676	γ Draconis	2.42	K 5	17 55 0.198	+1.3927	— 9	+51 29 46.69	—0.459	— 22
674	[ξ Herculis]	3.82	K 0	17 55 4.986	+2.3312	+ 66	+29 15 14.74	—0.455	— 25
673	ν Ophiuchi	3.50	K 0	17 55 13.621	+3.3022	— 7	— 9 45 59.82	—0.535	—118
677	67 Ophiuchi	3.92	B 5 p	17 57 11.321	+3.0044	0	+ 2 56 0.46	—0.259	— 13
679	γ Sagittarii	3.07	K 0	18 1 22.454	+3.8530	— 47	—30 25 36.15	—0.074	—194
678	[Apodis 66 G.]	5.69	K 5	18 1 36.195	+8.3869	— 44	—75 53 46.72	—0.129	—270

Nr.	N a m e	Gr.	Spektrum	A.R. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
680	72 Ophiuchi	3.73	A	18 ^h 4 ^m 4.670	+2.8439	— 42	+ 9° 33' 9.68	+0.435	+ 78
681	o Herculis	3.83	A o	18 4 51.029	+2.3401	+ 2	+28 45 6.40	+0.424	0
682	μ Sagittarii	4.01	B 8 p	18 9 38.175	+3.5873	— 3	—21 4 42.81	+0.839	— 3
683	[γ Sagittarii]	3.16	M b	18 12 57.432	+4.0587	— 117	—36 47 2.80	+0.969	—163
684	[Grb 2533]	5.42	B 5	18 13 29.958	+1.8655	— 6	+42 8 5.34	+1.173	— 7
685	[36 Draconis]	5.03	F 5	18 13 29.968	+0.3453	+ 533	+64 22 25.28	+1.210	+ 30
687	[δ Sagittarii]	2.84	K o	18 16 34.591	+3.8408	+ 27	—29 51 32.86	+1.417	— 32
686	[ξ Pavonis]	4.25	K 2	18 16 52.031	+5.5276	— 26	—61 31 38.21	+1.491	+ 17
688	γ Serpentis	3.42	K o	18 17 44.332	+3.1036	— 372	— 2 55 5.48	+0.851	—699
689	ε Sagittarii	1.95	A o	18 19 35.518	+3.9822	— 30	—34 25 8.17	+1.584	—127
690	109 Herculis	3.92	K o	18 20 45.432	+2.5563	+ 140	+21 44 13.16	+1.556	—257
693	[φ Draconis]	4.24	A o p	18 21 44.930	—0.8592	— 17	+71 18 5.09	+1.932	+ 33
691	α Telescopii	3.76	B 3	18 21 51.442	+4.4486	— 21	—46 0 29.61	+1.861	— 48
695	χ Draconis	3.69	F 8	18 22 18.145	—1.0810	+1170	+72 42 12.03	+1.585	—362
694	δ Draconis	4.85	A 2	18 22 54.192	+0.8764	— 45	+58 45 36.87	+2.058	+ 58
692	[λ Sagittarii]	2.94	K o	18 23 42.721	+3.7021	— 37	—25 27 41.34	+1.883	—188
696	[2 H. Scuti]	4.73	A 3	18 25 15.868	+3.4189	— 3	—14 36 40.45	+2.207	+ 2
697	[θ Coron. austr.]	4.69	G 5	18 28 34.521	+4.2836	+ 15	—42 21 50.56	+2.469	— 24
700	[Grb 2655]	5.84	K o	18 33 5.559	—2.8902	— 10	+77 29 40.05	+2.881	— 3
699	α Lyrae	0.14	A o	18 34 36.121	+2.0314	+ 176	+38 43 6.36	+3.296	+281
698	ζ Pavonis	4.10	K o	18 34 58.855	+7.0157	— 24	—71 29 25.37	+2.870	—178
701	[Grb 2640]	6.00	A 3	18 36 0.325	+0.1884	+ 18	+65 25 36.59	+3.220	+ 84
702	[5 H. Scuti]	5.09	G 5	18 39 45.789	+3.2672	+ 13	— 8 20 41.31	+3.470	+ 9
703	110 Herculis	4.26	F 5	18 42 41.495	+2.5813	— 12	+20 28 44.46	+3.372	—340
704	λ Pavonis	4.42	B 2	18 45 49.677	+5.5616	— 25	—62 16 8.52	+3.954	— 28
705	*β Lyrae	var.	B 8 p +Bap	18 47 31.930	+2.2149	+ 3	+33 16 53.69	+4.126	— 2
707	o Draconis	4.78	K o	18 50 11.074	+0.8863	+ 105	+59 18 12.82	+4.379	+ 25
706	σ Sagittarii	2.14	B 3	18 50 59.238	+3.7199	+ 4	—26 23 2.93	+4.360	— 63
709	θ Serpent. pr.	4.50	A 5	18 52 47.354	+2.9823	+ 29	+ 4 6 44.59	+4.604	+ 28
708	λ Telescopii	5.03	B 9	18 52 56.743	+4.8014	+ 3	—53 1 50.25	+4.604	+ 14
711	*R Lyrae	var.	M b	18 53 14.154	+1.8263	+ 28	+43 51 15.33	+4.690	+ 76
710	[ξ Sagittarii]	3.61	K o	18 53 36.843	+3.5788	+ 18	—21 11 56.25	+4.630	— 16
714	[υ Draconis]	4.91	K o	18 55 14.973	—0.7297	+ 103	+71 12 18.90	+4.826	+ 40
713	γ Lyrae	3.30	A o p	18 56 21.716	+2.2439	— 4	+32 35 37.81	+4.878	— 2
712	[ε Aquilae]	4.21	K o	18 56 29.406	+2.7221	— 42	+14 58 23.74	+4.811	— 80
715	[ζ Sagittarii]	2.71	A 2	18 58 13.340	+3.8170	— 21	—29 58 49.23	+5.039	+ 2
716	ζ Aquilae	3.02	A o	19 2 14.298	+2.7570	— 7	+13 45 34.45	+5.276	—101
717	λ Aquilae	3.55	B 9	19 2 35.239	+3.1836	— 16	— 4 59 14.63	+5.319	— 87
718	α Coron. austr.	4.12	A 2	19 4 46.753	+4.0819	+ 59	—38 0 49.60	+5.481	—109
719	[ι Lyrae]	5.13	B 5	19 4 50.355	+2.1407	— 3	+35 59 27.55	+5.592	— 3

Nr. 705. Größe: Max. 3.4, Min. 4.1

Nr. 711.

Größe: Max. 4.0, Min. 4.7, Größe in Harvard 50 = 4.32

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in o".0001	Dekl. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in o".001
720	π Sagittarii	3.02	F 2	19 ^h 5 ^m 39.666	+3.5679	— 5	—21° 8' 5.49	+ 5.629	— 35
721	[Pavonis 60 G.]	5.57	A 2	19 10 16.442	+6.0421	— 7	—66 46 57.41	+ 6.029	— 21
723	δ Draconis	3.24	K o	19 12 32.650	+0.0177	+ 167	+67 32 24.36	+ 6.327	+ 88
722	[d Sagittarii]	5.03	K o	19 13 35.929	+3.5102	— 12	—19 4 37.71	+ 6.318	— 9
724	θ Lyrae	4.46	K o	19 13 58.346	+2.0817	— 7	+38 0 35.40	+ 6.357	— 1
725	ω Aquilae	5.14	A 5	19 14 34.651	+2.8157	— 3	+11 28 10.95	+ 6.421	+ 13
726	κ Cygni	3.98	K o	19 15 30.540	+1.3871	+ 69	+53 14 25.60	+ 6.605	+ 119
729	τ Draconis	4.63	K o	19 16 53.440	—1.1463	— 326	+73 13 40.46	+ 6.709	+ 109
727	[v Sagittarii]	4.58	B 8 ^p	19 17 46.604	+3.4363	0	—16 5 9.31	+ 6.670	— 2
728	α Sagittarii	4.11	B 8	19 19 6.484	+4.1581	+ 18	—40 44 50.63	+ 6.664	— 118
730	δ Aquilae	3.44	F o	19 22 1.167	+3.0246	+ 167	+ 2 58 33.12	+ 7.103	+ 81
731	[Sagittar. 186 G.]	5.68	B 9	19 22 34.951	+3.7922	+ 7	—29 52 52.38	+ 7.020	— 47
734	[Grb 2900]	6.00	A 2	19 25 54.215	—3.6047	+ 96	+79 27 57.66	+ 7.303	— 35
732	* β Cygni	3.24	K o + A o	19 27 56.290	+2.4191	— 2	+27 48 49.06	+ 7.496	— 8
733	ϵ Cygni	3.94	A 2	19 27 58.012	+1.5129	+ 22	+51 34 55.23	+ 7.631	+ 125
735	[ϵ Telescopii]	5.02	K o	19 30 6.015	+4.4517	— 41	—48 14 58.77	+ 7.639	— 40
736	h Sagittarii	4.66	B 9	19 32 30.603	+3.6515	+ 46	—25 2 14.67	+ 7.851	— 22
737	[κ Aquilae]	5.04	B o	19 33 10.824	+3.2279	+ 3	— 7 10 55.91	+ 7.927	0
738	θ Cygni	4.64	F 5	19 34 35.450	+1.6081	— 29	+50 3 37.58	+ 8.287	+ 247
740	[15 Cygni]	5.02	K o	19 41 47.261	+2.1633	+ 59	+37 11 12.29	+ 8.648	+ 36
739	[v Telescopii]	5.52	A 5	19 42 23.550	+4.9043	+ 86	—56 31 48.85	+ 8.524	— 137
742	δ Cygni	2.97	A o	19 42 49.124	+1.8756	+ 51	+44 57 41.12	+ 8.733	+ 40
741	γ Aquilae	2.80	K 2	19 42 58.750	+2.8519	+ 9	+10 26 38.13	+ 8.706	0
743	δ Sagittae	3.78	M a ^a + A o	19 44 18.652	+2.6749	+ 4	+18 21 46.53	+ 8.824	+ 13
744	[51 Aquilae]	5.55	F o	19 46 59.093	+3.3015	— 21	—10 56 23.30	+ 9.062	+ 41
745	α Aquilae	0.89	A 5	19 47 24.994	+2.9268	+ 360	+ 8 41 5.52	+ 9.438	+ 383
747	ϵ Draconis	3.99	K o	19 48 24.961	—0.1961	+ 156	+70 5 31.76	+ 9.162	+ 30
746	*[η Aquilae]	var.	G o p	19 48 57.517	+3.0564	+ 6	+ 0 49 38.10	+ 9.166	— 9
749	β Aquilae	3.90	K o	19 51 55.427	+2.9465	+ 25	+ 6 13 59.56	+ 8.925	— 480
748	ϵ Pavonis	4.10	A o	19 52 38.477	+6.9641	+ 148	—73 5 42.43	+ 9.328	— 132
750	ψ Cygni	4.80	A 3	19 53 50.780	+1.5511	— 43	+52 15 18.24	+ 9.522	— 31
751	θ^1 Sagittarii	4.39	B 3	19 55 14.869	+3.9058	— 12	—35 27 52.05	+ 9.625	— 36
752	γ Sagittae	3.71	K 5	19 55 41.282	+2.6675	+ 43	+19 18 13.04	+ 9.718	+ 24
753	[c Sagittarii]	4.60	M b	19 58 25.078	+3.6903	+ 21	—27 54 11.14	+ 9.920	+ 18
754	δ Pavonis	3.64	G 5	20 1 58.447	+5.8998	+1963	—66 21 36.99	+ 9.011	—1160
755	[ϵ Telescopii]	4.86	M a	20 2 6.315	+4.6005	— 44	—53 4 48.40	+10.179	— 2
756	θ Aquilae	3.37	A o	20 7 44.716	+3.0954	+ 22	— 1 1 38.53	+10.608	+ 6
759	κ Cephei	4.40	B 9	20 11 14.713	—1.9937	+ 12	+77 30 15.93	+10.888	+ 27
757	σ^1 Cygni sq.	3.95	K o + B 8	20 11 27.529	+1.8892	+ 4	+46 31 52.45	+10.878	+ 1
758	[33 Cygni]	4.32	A 3	20 11 47.696	+1.3953	+ 74	+56 21 21.95	+10.987	+ 85

Nr. 732. Größe und Spektrum beziehen sich auf die hellere Komponente. Die entsprechenden Werte für die schwächere Komponente sind 5.36 und B 9. Nr. 746. Größe: Max. 3.7, Min. 4.5

Nr.	N a m e	Gr.	Spektrum	A.R. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
760	24 Vulpeculae	5.45	K O	20 13 ^h 49.920	+2.5671	+ 12	+24° 27' 26.94	+11.032	— 19
761	α ² Capricorni	3.77	G 5	20 14 13.670	+3.3291	+ 40	—12 45 35.61	+11.091	+ 11
762	[β Capricorni]	3.25	G ^o + A ^o	20 17 8.167	+3.3710	+ 23	—15 0 1.87	+11.297	+ 6
763	[x' Sagittarii]	5.64	A O	20 17 46.790	+4.0783	+ 37	—42 16 6.86	+11.241	— 96
765	γ Cygni	2.32	F 8 p	20 19 45.079	+2.1529	+ 4	+40 2 5.88	+11.479	0
764	α Pavonis	2.12	B 3	20 20 12.043	+4.7558	+ 11	—56 57 27.85	+11.426	— 85
766	[ρ Capricorni]	4.96	F O	20 24 55.618	+3.4227	— 14	—18 2 34.67	+11.831	— 16
767	θ Cephei	4.28	A 5	20 28 25.627	+1.0089	+ 63	+62 45 42.31	+12.079	— 14
768	ε Delphini	3.98	B 5	20 29 54.989	+2.8660	+ 5	+11 4 3.40	+12.171	— 25
770	73 Draconis	5.18	A 2 p	20 32 26.370	—0.7738	+ 16	+74 43 6.44	+12.359	— 12
769	α Indi	3.21	K O	20 32 43.210	+4.2239	+ 33	—47 32 0.90	+12.450	+ 60
771	β Delphini	3.72	F 5	20 34 18.795	+2.8130	+ 74	+14 21 14.48	+12.463	— 36
772	[x Delphini]	5.23	G 5	20 35 46.686	+2.9138	+ 212	+ 9 50 31.46	+12.617	+ 18
773	ν Capricorni	5.33	M a	20 36 7.455	+3.4161	— 17	—18 22 58.07	+12.607	— 16
774	α Delphini	3.86	B 8	20 36 25.986	+2.7865	+ 45	+15 40 3.11	+12.638	— 6
775	β Pavonis	3.60	A 5	20 38 45.784	+5.4254	— 71	—66 27 10.79	+12.803	+ 1
776	[η Indi]	4.70	F O	20 38 58.853	+4.4117	+ 157	—52 10 8.67	+12.743	— 73
777	α Cygni	1.33	A 2 p	20 39 4.745	+2.0450	+ 4	+45 1 58.64	+12.822	— 1
778	[δ Delphini]	4.53	A 5	20 40 14.252	+2.8008	— 14	+14 49 33.39	+12.853	— 48
779	[ψ Capricorni]	4.26	F 8	20 42 0.805	+3.5536	— 44	—25 31 12.50	+12.861	— 157
780	ε Cygni	2.64	K O	20 43 25.128	+2.4275	+ 290	+33 42 39.31	+13.439	+ 328
782	[6 H. Cephei]	4.63	G O	20 43 38.401	+1.4893	— 87	+57 19 53.56	+12.892	— 234
783	η Cephei	3.59	K O	20 43 53.353	+1.2223	+ 131	+61 34 13.10	+13.962	+ 819
781	ε Aquarii	3.83	A O	20 43 56.531	+3.2480	+ 17	— 9 44 57.91	+13.118	— 28
784	λ Cygni	4.47	B 5	20 44 43.197	+2.3364	+ 5	+36 14 11.02	+13.197	0
785	β Indi	3.72	K O	20 49 25.753	+4.6980	0	—58 42 57.35	+13.478	— 27
786	32 Vulpeculae	5.24	K 5	20 51 37.115	+2.5566	— 4	+27 47 39.51	+13.647	+ 1
788	ν Cygni	4.04	A O	20 54 35.990	+2.2362	+ 9	+40 54 2.33	+13.818	— 17
787	[α Octantis]	5.24	F 2	20 56 25.252	+7.3256	— 13	—77 17 20.08	+13.595	— 355
789	[ι Aquarii]	6.26	G O	20 56 55.887	+3.1590	+ 23	— 4 59 52.23	+13.850	— 133
790	ζ Microscopii	5.35	F O	20 58 33.708	+3.8366	— 36	—38 54 8.09	+13.962	— 122
792	[ξ Cygni]	3.92	K 5	21 2 25.226	+2.1822	+ 12	+43 39 6.25	+14.320	— 3
791	[A Capricorni]	4.60	M a	21 3 5.686	+3.5102	— 30	—25 16 58.26	+14.317	— 47
793	61 Cygni pr.	5.57	K 5	21 3 48.128	+2.6868	+3505	+38 24 33.27	+17.663	+3256
794	ν Aquarii	4.52	K O	21 5 50.263	+3.2690	+ 62	—11 39 7.45	+14.520	— 9
795	Br 2777	5.90	B 9	21 6 54.773	—1.1731	+ 74	+77 50 49.16	+14.630	+ 36
797	ζ Cygni	3.40	K O	21 9 59.909	+2.5528	— 1	+29 56 34.90	+14.720	— 59
798	[Grb 3415]	5.65	B 2	21 10 2.882	+1.5276	— 6	+59 42 8.24	+14.779	— 2
796	[Indi 23 G.]	5.84	A 5	21 10 50.577	+4.2884	— 19	—53 33 1.04	+14.782	— 46
799	[τ Cygni]	3.82	F O	21 12 2.134	+2.3944	+ 137	+37 45 0.47	+15.333	+ 435

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
800	α Equulei	4.14	M F 8 + A 3	21 12 22.512	+2.9992	+ 38	+ 4 57 41.72	+14.830	- 87
801	[4 Pisc. austr.]	4.79	A 0	21 13 45.501	+3.6403	+ 35	-32 27 43.10	+14.972	- 26
802	[η^1 Microscop.]	4.92	A 2 p	21 16 21.287	+3.8434	+ 70	-41 6 7.56	+15.162	+ 14
803	α Cephei	2.60	A 5	21 16 56.030	+1.4327	+ 212	+62 17 33.93	+15.231	+ 50
804	ι Pegasi	4.24	K 0	21 18 53.688	+2.7742	+ 74	+19 30 30.10	+15.353	+ 61
805	γ Pavonis	4.30	F 8	21 20 45.623	+4.9788	+ 129	-65 40 47.66	+16.186	+ 788
806	ζ Capricorni	3.86	G 5 p	21 22 43.869	+3.4271	- 1	-22 42 40.51	+15.530	+ 23
807	[g Cygni]	5.34	K 0	21 26 54.110	+2.2135	+ 48	+46 14 8.22	+15.839	+ 103
809	β Cephei	3.32	B 1	21 27 46.651	+0.7797	+ 20	+70 15 27.24	+15.790	+ 7
808	β Aquarii	3.07	G 0	21 27 55.668	+3.1587	+ 11	- 5 52 32.23	+15.786	- 5
810	ν Octantis	3.74	K 0	21 33 52.291	+6.7341	+ 134	-77 41 53.60	+15.850	- 256
811	74 Cygni	5.09	A 5	21 34 10.892	+2.4039	- 3	+40 6 10.18	+16.134	+ 12
812	[γ Capricorni]	3.80	F 0 p	21 36 16.249	+3.3254	+ 131	-16 58 29.32	+16.214	- 16
813	[13 H. Cephei]	5.64	Oe 5	21 36 49.166	+1.8620	+ 7	+57 10 35.46	+16.260	+ 2
815	ϵ Pegasi	2.54	K 0	21 40 47.812	+2.9463	+ 18	+ 9 33 28.06	+16.459	0
814	[ι Pisc. austr.]	4.35	A 0	21 40 50.475	+3.5763	+ 18	-33 20 29.33	+16.372	- 89
817	[11 Cephei]	4.85	K 0	21 40 55.052	+0.8839	+ 234	+70 59 36.44	+16.563	+ 98
816	[κ Pegasi]	4.27	F 5	21 41 31.154	+2.7161	+ 25	+25 19 37.56	+16.505	+ 10
818	[λ Capricorni]	5.43	A 0	21 42 49.387	+3.2306	+ 20	-11 41 5.87	+16.556	- 4
819	δ Capricorni	2.98	A 5	21 43 14.087	+3.3124	+ 178	-16 26 28.56	+16.286	- 294
821	π^2 Cygni	4.26	B 3	21 44 14.540	+2.2158	+ 8	+48 59 22.60	+16.626	- 4
820	[σ Indi]	5.50	K 2	21 44 58.651	+5.0990	- 87	-69 57 6.87	+16.644	- 21
822	γ Gruis	3.16	B 8	21 49 45.359	+3.6362	+ 77	-37 41 25.06	+16.875	- 18
823	16 Pegasi	5.05	B 3	21 49 55.275	+2.7292	+ 4	+25 35 59.24	+16.903	+ 1
824	[δ Indi]	4.56	F 0	21 53 14.001	+4.0919	+ 43	-55 19 18.79	+17.026	- 29
826	[20 Pegasi]	5.66	F 2	21 57 43.615	+2.9222	+ 36	+12 47 19.06	+17.205	- 54
825	[ϵ Indi]	4.74	K 5	21 58 5.751	+4.6003	+4809	-57 4 14.57	+14.699	-2576
827	α Aquarii	3.19	G 0	22 2 14.433	+3.0814	+ 10	- 0 39 20.83	+17.449	- 7
828	ι Aquarii	4.35	B 8	22 2 42.768	+3.2409	+ 24	-14 12 18.49	+17.425	- 51
830	20 Cephei	5.39	K 5	22 2 54.596	+1.8227	+ 22	+62 26 54.89	+17.545	+ 60
831	[ι Pegasi]	3.96	F 5	22 3 47.832	+2.7921	+ 219	+25 0 26.56	+17.545	+ 22
829	α Gruis	2.16	B 5	22 3 53.569	+3.7873	+ 119	-47 17 46.51	+17.355	- 171
832	[μ Pisc. austr.]	4.62	A 2	22 4 21.665	+3.5018	+ 41	-33 19 33.88	+17.506	- 41
833	[27 Pegasi]	5.65	K 0	22 6 10.090	+2.6578	- 42	+32 50 4.70	+17.557	- 65
834	θ Pegasi	3.70	A 2	22 6 43.157	+3.0263	+ 184	+ 5 51 27.71	+17.676	+ 31
835	π Pegasi	4.38	F 5	22 6 55.249	+2.6635	- 9	+32 50 20.48	+17.635	- 19
836	ζ Cephei	3.62	K 0	22 8 27.441	+2.0795	+ 14	+57 51 38.25	+17.723	+ 6
837	24 Cephei	4.99	G 5	22 8 29.092	+1.1551	+ 54	+72 0 3.87	+17.726	+ 8
838	[λ Pisc. austr.]	5.40	B 9	22 10 24.360	+3.4030	+ 16	-28 6 34.87	+17.795	- 1
839	[ϵ Octantis]	5.11	M b	22 12 23.264	+6.8134	+ 137	-80 47 4.08	+17.835	- 40

Nr.	N a m e	Gr.	Spektrum	A.R. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o°.0001	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o°.001
840	♂ Aquarii	4.32	K o	22 13 11.648	+3.1663	+ 76	- 8° 7' 39.12	+17.888	- 19
841	α Tucanae	2.91	K 2	22 13 47.431	+4.1234	- 98	-60 36 15.96	+17.881	- 49
842	γ Aquarii	3.97	A o	22 18 5.576	+3.0987	+ 83	- 1 44 8.64	+18.102	+ 7
843	[31 Pegasi]	4.93	B 3 p	22 18 7.236	+2.9522	- 1	+11 51 24.90	+18.105	+ 9
844	3 Lacertae	4.58	K o	22 20 50.581	+2.3573	- 15	+51 52 58.02	+18.007	-191
845	[ν Gruis]	5.48	K o	22 24 36.881	+3.5204	+ 24	-39 28 53.68	+18.171	-162
846	[δ Gruis]	4.02	G 5	22 25 9.135	+3.5908	+ 17	-43 50 55.72	+18.344	- 8
847	*[δ Cephei]	var.	verän.	22 26 36.301	+2.2250	+ 17	+58 3 41.62	+18.405	+ 2
848	7 Lacertae	3.85	A o	22 28 26.706	+2.4698	+ 147	+49 55 38.07	+18.483	+ 17
849	[ν Aquarii]	5.29	F 5	22 30 55.360	+3.2834	+ 155	-21 3 44.17	+18.405	-144
850	η Aquarii	4.13	B 8	22 31 48.674	+3.0829	+ 59	- 0 28 25.47	+18.523	- 55
851	[31 Cephei]	5.22	F o	22 34 3.848	+1.4816	+ 383	+73 17 4.93	+18.675	+ 23
852	10 Lacertae	4.91	Oe 5	22 36 9.721	+2.6905	+ 4	+38 41 26.33	+18.712	- 6
853	[30 Cephei]	5.21	A 2	22 36 11.961	+2.1261	+ 1	+63 13 31.50	+18.698	- 22
854	[ε Pisc.austr.]	4.22	B 8	22 36 50.551	+3.3200	+ 12	-27 24 14.42	+18.741	+ 2
855	ζ Pegasi	3.61	B 8	22 38 1.198	+2.9918	+ 53	+10 28 14.19	+18.763	- 13
856	β Gruis	2.24	M b	22 38 33.230	+3.5875	+ 117	-47 14 46.52	+18.767	- 25
857	η Pegasi	3.10	G o	22 39 45.904	+2.8110	+ 12	+29 51 35.20	+18.795	- 33
858	[13 Lacertae]	5.24	K o	22 41 0.615	+2.6735	- 6	+41 27 24.02	+18.871	+ 5
859	λ Pegasi	4.14	K o	22 43 12.323	+2.8886	+ 41	+23 12 7.36	+18.919	- 10
860	ε Gruis	3.69	A 2	22 44 23.699	+3.6303	+ 96	-51 40 49.11	+18.890	- 73
861	[τ Aquarii]	4.21	K 5	22 45 56.427	+3.1772	- 12	-13 57 26.12	+18.974	- 33
862	[μ Pegasi]	3.67	K o	22 46 40.245	+2.8946	+ 109	+24 14 12.45	+18.986	- 41
863	ι Cephei	3.68	K o	22 47 13.094	+2.1314	- 114	+65 50 13.84	+18.919	-123
864	λ Aquarii	3.84	M a	22 49 0.951	+3.1302	+ 5	- 7 56 50.07	+19.129	+ 38
865	ρ Indi	6.14	G o	22 49 53.008	+4.1957	- 101	-70 26 34.55	+19.176	+ 62
866	δ Aquarii	3.51	A 2	22 50 59.411	+3.1846	- 33	-16 11 17.48	+19.123	- 19
867	α Pisc. austr.	1.29	A 3	22 53 50.475	+3.3172	+ 247	-29 59 17.94	+19.056	-159
868	[ζ Gruis]	4.18	G 5	22 56 48.937	+3.5498	- 80	-53 7 28.71	+19.272	- 16
869	ο Androm.	3.63	B ₅ A _{2p}	22 58 44.531	+2.7581	+ 25	+41 57 16.80	+19.320	- 13
870	β Pegasi	2.61	M a	23 0 25.587	+2.9071	+ 145	+27 42 29.24	+19.508	+138
871	α Pegasi	2.57	A o	23 1 19.322	+2.9874	+ 41	+14 50 0.99	+19.350	- 41
872	♂ Gruis	4.35	F 5	23 2 59.876	+3.3842	- 52	-43 53 37.26	+19.390	- 38
874	π Cephei	4.56	G 5	23 5 41.853	+1.9040	+ 29	+75 0 51.53	+19.459	- 25
873	ε ² Aquarii	3.80	K o	23 5 46.193	+3.1998	+ 32	-21 32 50.22	+19.522	+ 36
875	Br 3077	5.65	K 2	23 9 57.157	+2.8840	+2533	+56 47 13.52	+19.864	+296
876	[Tucanae 25 G.]	5.69	G o	23 12 49.511	+3.6179	+ 231	-62 22 40.07	+19.568	- 53
877	γ Tucanae	4.10	F 2	23 13 24.736	+3.5092	- 59	-58 36 51.61	+19.714	+ 82
878	[γ Piscium]	3.85	K o	23 13 35.265	+3.1096	+ 503	+ 2 54 17.69	+19.653	+ 18
879	γ Sculptoris	4.51	K o	23 15 6.125	+3.2422	+ 10	-32 54 29.65	+19.593	- 68

Nr. 847. Spektrum wechselt von F 5 bis G o.

Nr.	Name	Gr.	Spektrum	AR. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".0001	Dekl. 1931.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".0001
880	τ Pegasi	4.65	A 5	23 ^h 17 ^m 13.138	+2.9679	+ 21	+23° 21' 44.23	+19.683	— 13
882	δ Cassiopeiae	5.20	K 5	23 21 45.837	+2.6590	+ 17	+61 54 13.52	+19.756	— 10
881	[ν Pegasi]	4.57	G 0	23 21 55.963	+2.9928	+138	+23 1 26.22	+19.804	+ 35
883	[ϕ Gruis]	5.54	F 0	23 22 45.213	+3.3606	— 4	—53 6 14.06	+19.899	+119
884	α Piscium	4.94	A 2 p	23 23 23.705	+3.0753	+ 56	+ 0 52 39.43	+19.696	— 93
885	γ Pegasi	4.67	K 0	23 25 39.793	+3.0330	+ 38	+12 22 46.55	+19.847	+ 28
886	[β Sculptoris]	4.46	B 9	23 29 16.528	+3.2200	+ 65	—38 12 0.76	+19.878	+ 14
887	[72 Pegasi]	5.21	K 2	23 30 31.560	+2.9742	+ 40	+30 56 39.60	+19.867	— 12
888	[Aquarii 248 G.]	6.51	K 0	23 31 58.542	+3.0949	— 5	— 7 50 47.28	+19.918	+ 23
889	[Phoenixis 11 G.]	4.86	A 2	23 34 8.415	+3.2328	+ 47	—45 52 28.93	+19.879	— 37
890	[λ Androm.]	4.00	K 0	23 34 10.823	+2.9325	+156	+46 5 2.77	+19.494	—423
891	ϵ Androm.	4.28	B 8	23 34 44.782	+2.9391	+ 27	+42 53 9.02	+19.918	— 5
892	ϵ Piscium	4.28	F 8	23 36 24.007	+3.0850	+247	+ 5 15 7.38	+19.498	—440
893	γ Cephei	3.42	K 0	23 36 30.011	+2.4502	—184	+77 14 50.01	+20.096	+157
894	ω^2 Aquarii	4.62	A 0	23 39 8.729	+3.1117	+ 65	—14 55 35.60	+19.899	— 63
895	δ H. Cephei	5.02	A 0	23 44 35.904	+2.8594	+ 23	+67 25 24.13	+20.000	+ 1
896	Lac. δ Sculpt.	4.64	A 0	23 45 20.064	+3.1264	+ 71	—28 30 43.21	+19.898	—105
897	[Aquarii 268 G.]	6.08	K 0	23 46 41.108	+3.0957	+ 86	—10 21 33.60	+20.097	+ 86
898	φ Pegasi	5.23	M a	23 48 58.481	+3.0503	— 8	+18 44 12.98	+19.982	— 39
899	[ρ Cassiopeiae]	4.85	F 8 p	23 50 55.571	+2.9904	— 7	+57 6 55.78	+20.032	+ 4
900	[27 Piscium]	5.07	K 0	23 55 8.420	+3.0712	— 37	— 3 56 19.77	+19.971	— 68
901	[π Phoenixis]	5.14	K 0	23 55 21.521	+3.1119	+ 30	—53 7 53.60	+20.086	+ 46
902	ω Piscium	4.03	F 5	23 55 45.999	+3.0801	+100	+ 6 28 52.64	+19.931	—109
903	ϵ Tucanae	4.71	B 9	23 56 20.522	+3.1271	+ 64	—65 57 40.08	+20.009	— 33
904	[θ Octantis]	4.73	K 0	23 58 4.265	+3.1015	—219	—77 26 47.99	+19.873	—171

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Nr.	N a m e	Gr.	Spektrum	AR. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".oor	Dekl. 1931.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".oor
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Nördliche Polsterne

<i>Na</i>	43 H. Cephei	^M 4.52	K o	0 ^h 58 ^m 58. ^s 05	+ 7. ^s 878	+ 76	+85° 53' 16".80	+19. ^s 383	— 2
<i>Nb</i>	α Ursae min.	2.12	F 8	1 37 25.31	+32.832	+153	+88 56 0.92	+18.261	+ 1
<i>Nc</i>	*Grb 750	6.70	F 8	4 14 11.03	+17.867	+ 16	+85 22 17.48	+ 8.961	+ 32
<i>Nd</i>	51 H. Cephei	5.26	Ma	7 8 49.97	+28.750	— 51	+87 9 34.90	— 5.965	— 35
<i>Ne</i>	1 H. Dracon.	4.58	K 2	9 27 23.94	+ 8.679	— 6	+81 38 1.34	—15.783	— 20
<i>Nf</i>	30 H. Camel.	5.34	F 2	10 22 49.82	+ 7.447	— 46	+82 54 39.83	—18.238	+ 31
<i>Ng</i>	ε Ursae min.	4.40	G 5	16 52 58.35	— 6.205	+ 7	+82 9 13.02	— 5.773	+ 6
<i>Nh</i>	δ Ursae min.	4.44	A o	17 54 28.40	—19.487	+ 15	+86 36 48.22	— 0.426	+ 57
<i>Ni</i>	λ Ursae min.	6.55	M b	18 45 31.03	—74.846	— 99	+89 2 8.06	+ 3.961	+ 6
<i>Nk</i>	76 Draconis	5.69	A o	20 47 41.73	— 4.242	+ 16	+82 16 38.29	+13.420	+ 27

Nr. Ne. Größe aus Harvard 54 entnommen.

Südliche Polsterne

<i>Sa</i>	Octantis 4 G.	^M 5.63	K o	1 ^h 41 ^m 11. ^s 30	— 3. ^s 595	+ 18	—85° 7' 7".29	+18. ^s 156	+ 34
<i>Sb</i>	ξ Mensae	5.85	K o	5 6 39.55	— 6.896	— 4	—82 33 55.68	+ 4.637	+ 14
<i>Sc</i>	ζ Octantis	5.38	F o	9 7 3.37	— 8.372	— 94	—85 23 21.85	—14.554	+ 49
<i>Sd</i>	ι Octantis	5.38	K o	12 47 31.97	+ 6.109	+ 42	—84 44 56.87	—19.589	+ 25
<i>Se</i>	Octantis 20 G.	6.52	A 2	14 52 25.29	+27.462	—184	—87 52 18.70	—14.704	— 69
<i>Sf</i>	Octantis 26 G.	6.13	A o	16 34 47.18	+22.049	+ 5	—86 14 42.96	— 7.284	— 2
<i>Sg</i>	χ Octantis	5.22	K o	18 14 31.90	+35.642	— 86	—87 39 40.95	+ 1.141	—129
<i>Sh</i>	σ Octantis	5.48	F o	19 48 58.96	+87.434	+109	—89 11 31.69	+ 9.177	+ 1
<i>Si</i>	β Octantis	4.34	F o	22 39 7.04	+ 6.230	— 26	—81 44 39.33	+18.811	+ 3
<i>Sk</i>	τ Octantis	5.56	K o	23 18 26.83	+ 9.547	+ 20	—87 51 42.38	+19.731	+ 15

Tag	1) α Andromedae		2) β Cassiopeiae		3) ϵ Phoenicis		7) γ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$0^h 4^m$	$+28^\circ 42'$	$0^h 5^m$	$+58^\circ 45'$	$0^h 5^m$	$-46^\circ 7'$	$0^h 9^m$	$+14^\circ 47'$
Jan. 0	48.174 ¹³²	40.91 ⁸⁶	27.473 ³⁰⁸	83.87 ⁶⁵	54.757 ¹⁸⁶	59.38 ³⁸	40.175 ¹⁰⁸	61.88 ⁷⁷
10	48.042 ¹²⁵	40.05 ¹¹¹	27.165 ²⁹⁶	83.22 ¹¹⁸	54.571 ¹⁷¹	59.00 ⁸⁶	40.067 ¹⁰³	61.11 ⁸⁸
20	47.917 ¹¹³	38.94 ¹³²	26.869 ²⁷²	82.04 ¹⁶⁵	54.400 ¹⁵⁰	58.14 ¹²⁹	39.964 ⁹³	60.23 ⁹⁵
30	47.804 ⁹⁶	37.62 ¹⁴⁸	26.597 ²³⁶	80.39 ²⁰⁴	54.250 ¹²⁴	56.85 ¹⁷⁰	39.871 ⁷⁸	59.28 ⁹⁹
Feb. 9	47.708 ⁷⁰	36.14 ¹⁵⁶	26.361 ¹⁸⁸	78.35 ²³⁵	54.126 ⁹⁰	55.15 ²⁰⁷	39.793 ⁵⁸	58.29 ⁹⁶
19	47.638 ⁴⁰	34.58 ¹⁵⁸	26.173 ¹²⁸	76.00 ²⁵⁶	54.036 ⁵⁴	53.08 ²³⁹	39.735 ³¹	57.33 ⁸⁹
März 1	47.598 ⁴	33.00 ¹⁵¹	26.045 ⁵⁹	73.44 ²⁶⁶	53.982 ¹²	50.69 ²⁶⁷	39.704 ⁰	56.44 ⁷⁶
11	47.594 ³⁸	31.49 ¹³⁶	25.986 ¹⁶	70.78 ²⁶⁴	53.970 ³⁵	48.02 ²⁸⁸	39.704 ³⁷	55.68 ⁵⁸
21	47.632 ⁸³	30.13 ¹¹⁶	26.002 ⁹⁶	68.14 ²⁵¹	54.005 ⁸³	45.14 ³⁰⁵	39.741 ⁷⁶	55.10 ³⁵
31	47.715 ¹³⁰	28.97 ⁸⁷	26.098 ¹⁷⁶	65.63 ²²⁸	54.088 ¹³⁵	42.09 ³¹⁵	39.817 ¹¹⁸	54.75 ⁸
Apr. 10	47.845 ¹⁷⁶	28.10 ⁵⁵	26.274 ²⁵²	63.35 ¹⁹⁵	54.223 ¹⁸⁶	38.94 ³¹⁹	39.935 ¹⁶⁰	54.67 ²²
20	48.021 ²²¹	27.55 ¹⁸	26.526 ³²⁴	61.40 ¹⁵⁵	54.409 ²³⁷	35.75 ³¹⁷	40.095 ²⁰¹	54.89 ⁵⁴
30	48.242 ²⁶¹	27.37 ²¹	26.850 ³⁸⁸	59.85 ¹⁰⁹	54.646 ²⁸³	32.58 ³⁰⁸	40.296 ²³⁹	55.43 ⁸⁵
Mai 10	48.503 ²⁹⁶	27.58 ⁶⁰	27.238 ⁴⁴⁰	58.76 ⁵⁸	54.929 ³²⁷	29.50 ²⁹²	40.535 ²⁷¹	56.28 ¹¹⁶
20	48.799 ³²³	28.18 ⁹⁹	27.678 ⁴⁸⁰	58.18 ⁶	55.256 ³⁶³	26.58 ²⁶⁹	40.806 ²⁹⁸	57.44 ¹⁴⁴
30	49.122 ³⁴²	29.17 ¹³⁵	28.158 ⁵⁰⁶	58.12 ⁴⁸	55.619 ³⁹⁰	23.89 ²⁴¹	41.104 ³¹⁸	58.88 ¹⁶⁹
Juni 9	49.464 ³⁵²	30.52 ¹⁶⁸	28.664 ⁵²⁰	58.60 ⁹⁹	56.009 ⁴⁰⁹	21.48 ²⁰⁷	41.422 ³²⁹	60.57 ¹⁹⁰
19	49.816 ³⁵⁴	32.20 ¹⁹⁷	29.184 ⁵¹⁹	59.59 ¹⁴⁹	56.418 ⁴¹⁷	19.41 ¹⁶⁸	41.751 ³³²	62.47 ²⁰⁶
29	50.170 ³⁴⁶	34.17 ²²⁰	29.703 ⁵⁰⁴	61.08 ¹⁹⁴	56.835 ⁴¹⁵	17.73 ¹²⁴	42.083 ³²⁷	64.53 ²¹⁷
Juli 9	50.516 ³³⁰	36.37 ²³⁷	30.207 ⁴⁷⁸	63.02 ²³⁴	57.250 ⁴⁰²	16.49 ⁷⁹	42.410 ³¹³	66.70 ²²³
19	50.846 ³⁰⁷	38.74 ²⁵⁰	30.685 ⁴⁴¹	65.36 ²⁷⁰	57.652 ³⁷⁹	15.70 ³⁰	42.723 ²⁹²	68.93 ²²²
29	51.153 ²⁷⁶	41.24 ²⁵⁷	31.126 ³⁹⁵	68.06 ²⁹⁹	58.031 ³⁴⁵	15.40 ¹⁸	43.015 ²⁶⁶	71.15 ²¹⁸
Aug. 8	51.429 ²⁴²	43.81 ²⁵⁸	31.521 ³⁴¹	71.05 ³²¹	58.376 ³⁰³	15.58 ⁶⁴	43.281 ²³⁴	73.33 ²⁰⁸
18	51.671 ²⁰³	46.39 ²⁵³	31.862 ²⁸²	74.26 ³³⁶	58.679 ²⁵⁵	16.22 ¹⁰⁸	43.515 ¹⁹⁸	75.41 ¹⁹⁴
28	51.874 ¹⁶²	48.92 ²⁴⁵	32.144 ²²⁰	77.62 ³⁴⁶	58.934 ²⁰¹	17.30 ¹⁴⁶	43.713 ¹⁶⁰	77.35 ¹⁷⁸
Sept. 7	52.036 ¹²¹	51.37 ²³¹	32.364 ¹⁵⁶	81.08 ³⁴⁸	59.135 ¹⁴⁵	18.76 ¹⁷⁹	43.873 ¹²²	79.13 ¹⁵⁸
17	52.157 ⁸⁰	53.68 ²¹⁵	32.520 ⁹²	84.56 ³⁴³	59.280 ⁸⁷	20.55 ²⁰⁴	43.995 ⁸⁴	80.71 ¹³⁷
26	52.237 ⁴²	55.83 ¹⁹⁵	32.612 ³⁰	87.99 ³³¹	59.367 ³¹	22.59 ²²¹	44.079 ⁴⁹	82.08 ¹¹⁴
Okt. 6	52.279 ⁷	57.78 ¹⁷⁰	32.642 ³⁰	91.30 ³¹³	59.398 ²²	24.80 ²²⁷	44.128 ¹⁶	83.22 ⁹²
16	52.286 ²⁴	59.48 ¹⁴⁵	32.612 ⁸⁵	94.43 ²⁸⁸	59.376 ⁷⁰	27.07 ²²⁴	44.144 ¹³	84.14 ⁶⁹
26	52.262 ⁵²	60.93 ¹¹⁸	32.527 ¹³⁷	97.31 ²⁵⁶	59.306 ¹¹¹	29.31 ²¹¹	44.131 ³⁸	84.83 ⁴⁷
Nov. 5	52.210 ⁷⁶	62.11 ⁸⁸	32.390 ¹⁸²	99.87 ²¹⁹	59.195 ¹⁴⁴	31.42 ¹⁹⁰	44.093 ⁶⁰	85.30 ²⁵
15	52.134 ⁹⁵	62.99 ⁵⁸	32.208 ²²³	102.06 ¹⁷⁷	59.051 ¹⁷⁰	33.32 ¹⁵⁹	44.033 ⁷⁶	85.55 ³
25	52.039 ¹¹¹	63.57 ²⁷	31.985 ²⁵⁷	103.83 ¹²⁸	58.881 ¹⁸⁷	34.91 ¹²³	43.957 ⁸⁹	85.58 ¹⁶
Dez. 5	51.928 ¹²²	63.84 ⁶	31.728 ²⁸²	105.11 ⁷⁶	58.694 ¹⁹⁶	36.14 ⁸²	43.868 ¹⁰⁰	85.42 ³⁵
15	51.806 ¹²⁸	63.78 ³⁷	31.446 ²⁹⁹	105.87 ²³	58.498 ¹⁹⁹	36.96 ³⁶	43.768 ¹⁰⁵	85.07 ⁵³
25	51.678 ¹³¹	63.41 ⁶⁸	31.147 ³⁰⁶	106.10 ³²	58.299 ¹⁹⁴	37.32 ¹⁰	43.663 ¹⁰⁸	84.54 ⁶⁸
35	51.547	62.73	30.841	105.78	58.105	37.22	43.555	83.86
Mittl. Ort	48.995	34.29	29.022	69.16	54.763	41.95	40.795	59.75
sec δ , tg δ	1.140	+0.548	1.929	+1.649	1.443	-1.040	1.034	+0.264
a, a'	+3.1	+20.0	+3.1	+20.0	+3.0	+20.0	+3.1	+20.0
b, b'	+0.04	-0.02	+0.11	-0.02	-0.07	-0.03	+0.02	-0.04

Tag	9) ι Ceti		10) ζ Tucanae		11) β Hydri		12) α Phoenicis	
	A.R.	Dekl.	A.R.	Dekl.	A.R.	Dekl.	A.R.	Dekl.
1931	$0^h 15^m$	$-9^\circ 12'$	$0^h 16^m$	$-65^\circ 16'$	$0^h 22^m$	$-77^\circ 38'$	$0^h 22^m$	$-42^\circ 40'$
Jan. 0	54.389 ₁₀₂	29.08 ₄₉	29.78 ₃₉	70.02 ₈₃	11.11 ₈₇	55.71 ₁₀₇	52.655 ₁₇₇	67.15 ₁₃
10	54.287 ₉₇	29.57 ₃₄	29.39 ₃₆	69.19 ₁₄₀	10.24 ₈₂	54.64 ₁₆₆	52.478 ₁₆₇	67.02 ₅₉
20	54.190 ₈₈	29.91 ₁₈	29.03 ₃₂	67.79 ₁₉₂	9.42 ₇₄	52.98 ₂₂₀	52.311 ₁₅₂	66.43 ₁₀₂
30	54.102 ₇₄	30.09 ₁	28.71 ₂₈	65.87 ₂₃₉	8.68 ₆₄	50.78 ₂₆₇	52.159 ₁₃₀	65.41 ₁₄₃
Feb. 9	54.028 ₅₅	30.08 ₂₀	28.43 ₂₂	63.48 ₂₇₉	8.04 ₅₃	48.11 ₃₀₉	52.029 ₁₀₃	63.98 ₁₈₁
19	53.973 ₃₁	29.88 ₄₁	28.21 ₁₅	60.69 ₃₁₄	7.51 ₃₉	45.02 ₃₄₁	51.926 ₇₀	62.17 ₂₁₆
März 1	53.942 ₂	29.47 ₆₄	28.06 ₈	57.55 ₃₄₁	7.12 ₂₅	41.61 ₃₆₇	51.856 ₃₂	60.01 ₂₄₅
11	53.940 ₃₂	28.83 ₈₈	27.98 ₁	54.14 ₃₆₀	6.87 ₁₁	37.94 ₃₈₂	51.824 ₁₀	57.56 ₂₇₀
21	53.972 ₆₈	27.95 ₁₁₁	27.97 ₇	50.54 ₃₇₁	6.76 ₅	34.12 ₃₉₁	51.834 ₅₈	54.86 ₂₈₉
31	54.040 ₁₀₈	26.84 ₁₃₅	28.04 ₁₅	46.83 ₃₇₅	6.81 ₂₀	30.21 ₃₉₀	51.892 ₁₀₆	51.97 ₃₀₄
Apr. 10	54.148 ₁₄₉	25.49 ₁₅₇	28.19 ₂₃	43.08 ₃₇₁	7.01 ₃₆	26.31 ₃₈₂	51.998 ₁₅₇	48.93 ₃₁₁
20	54.297 ₁₈₈	23.92 ₁₇₇	28.42 ₃₂	39.37 ₃₆₀	7.37 ₅₁	22.49 ₃₆₅	52.155 ₂₀₆	45.82 ₃₁₄
30	54.485 ₂₂₅	22.15 ₁₉₅	28.74 ₃₉	35.77 ₃₄₁	7.88 ₆₅	18.84 ₃₄₁	52.361 ₂₅₄	42.68 ₃₀₉
Mai 10	54.710 ₂₅₉	20.20 ₂₀₇	29.13 ₄₆	32.36 ₃₁₄	8.53 ₇₈	15.43 ₃₁₀	52.615 ₂₉₇	39.59 ₂₉₈
20	54.969 ₂₈₇	18.13 ₂₁₆	29.59 ₅₂	29.22 ₂₈₁	9.31 ₈₉	12.33 ₂₇₁	52.912 ₃₃₅	36.61 ₂₇₉
30	55.256 ₃₀₈	15.97 ₂₂₀	30.11 ₅₆	26.41 ₂₄₁	10.20 ₉₈	9.62 ₂₂₈	53.247 ₃₆₃	33.82 ₂₅₅
Juni 9	55.564 ₃₂₁	13.77 ₂₁₉	30.67 ₆₀	24.00 ₁₉₆	11.18 ₁₀₄	7.34 ₁₇₉	53.610 ₃₈₅	31.27 ₂₂₄
19	55.885 ₃₂₇	11.58 ₂₁₁	31.27 ₆₁	22.04 ₁₄₇	12.22 ₁₀₉	5.55 ₁₂₅	53.995 ₃₉₆	29.03 ₁₈₈
29	56.212 ₃₂₄	9.47 ₁₉₉	31.88 ₆₂	20.57 ₉₄	13.31 ₁₁₀	4.30 ₆₉	54.391 ₃₉₈	27.15 ₁₄₈
Juli 9	56.536 ₃₁₃	7.48 ₁₈₂	32.50 ₆₁	19.63 ₃₈	14.41 ₁₀₉	3.61 ₁₁	54.789 ₃₈₉	25.67 ₁₀₄
19	56.849 ₂₉₆	5.66 ₁₆₀	33.11 ₅₇	19.25 ₁₇	15.50 ₁₀₄	3.50 ₄₆	55.178 ₃₆₈	24.63 ₅₆
29	57.145 ₂₇₀	4.06 ₁₃₄	33.68 ₅₃	19.42 ₇₁	16.54 ₉₇	3.96 ₁₀₂	55.546 ₃₄₁	24.07 ₉
Aug. 8	57.415 ₂₃₉	2.72 ₁₀₇	34.21 ₄₈	20.13 ₁₂₂	17.51 ₈₆	4.98 ₁₅₄	55.887 ₃₀₅	23.98 ₃₈
18	57.654 ₂₀₅	1.65 ₇₈	34.69 ₄₀	21.35 ₁₇₀	18.37 ₇₂	6.52 ₂₀₁	56.192 ₂₆₁	24.36 ₈₃
28	57.859 ₁₆₇	0.87 ₄₈	35.09 ₃₁	23.05 ₂₁₀	19.09 ₅₇	8.53 ₂₄₁	56.453 ₂₁₂	25.19 ₁₂₄
Sept. 7	58.026 ₁₂₉	0.39 ₁₉	35.40 ₂₂	25.15 ₂₄₃	19.66 ₄₀	10.94 ₂₇₁	56.665 ₁₆₀	26.43 ₁₅₉
17	58.155 ₉₀	0.20 ₇	35.62 ₁₃	27.58 ₂₆₆	20.06 ₂₂	13.65 ₂₉₂	56.825 ₁₀₇	28.02 ₁₈₈
26*)	58.245 ₅₄	0.27 ₃₁	35.75 ₄	30.24 ₂₇₈	20.28 ₃	16.57 ₃₀₁	56.932 ₅₅	29.90 ₂₀₉
Okt. 6	58.299 ₂₀	0.58 ₅₀	35.79 ₆	33.02 ₂₇₉	20.31 ₁₅	19.58 ₂₉₈	56.987 ₅	31.99 ₂₂₀
16	58.319 ₁₀	1.08 ₆₆	35.73 ₁₅	35.81 ₂₆₉	20.16 ₃₄	22.56 ₂₈₂	56.992 ₄₁	34.19 ₂₂₁
26	58.309 ₃₆	1.74 ₇₇	35.58 ₂₂	38.50 ₂₄₆	19.82 ₅₀	25.38 ₂₅₇	56.951 ₈₁	36.40 ₂₁₄
Nov. 5	58.273 ₅₈	2.51 ₈₄	35.36 ₂₈	40.96 ₂₁₄	19.32 ₆₄	27.95 ₂₁₈	56.870 ₁₁₅	38.54 ₁₉₇
15	58.215 ₇₅	3.35 ₈₆	35.08 ₃₄	43.10 ₁₇₂	18.68 ₇₅	30.13 ₁₇₁	56.755 ₁₄₂	40.51 ₁₇₁
25	58.140 ₈₈	4.21 ₈₃	34.74 ₃₈	44.82 ₁₂₃	17.93 ₈₄	31.84 ₁₁₇	56.613 ₁₆₂	42.22 ₁₃₉
Dez. 5	58.052 ₉₆	5.04 ₇₇	34.36 ₄₀	46.05 ₆₉	17.09 ₈₉	33.01 ₅₇	56.451 ₁₇₅	43.61 ₁₀₁
15	57.956 ₁₀₂	5.81 ₆₉	33.96 ₄₁	46.74 ₁₂	16.20 ₉₁	33.58 ₆	56.276 ₁₈₁	44.62 ₅₉
25	57.854 ₁₀₃	6.50 ₅₇	33.55 ₄₀	46.86 ₄₈	15.29 ₉₀	33.52 ₆₇	56.095 ₁₈₂	45.21 ₁₅
35	57.751	7.07	33.15	46.38	14.39	32.85	55.913	45.36
Mittl. Ort sec δ , tg δ	54.737 1.013	22.96 -0.162	29.17 2.391	49.43 -2.172	9.27 4.673	34.17 -4.565	52.567 1.360	51.05 -0.922
a, a'	+3.1	+20.0	+2.9	+20.0	+2.5	+20.0	+3.0	+19.9
b, b'	-0.01	-0.07	-0.14	-0.07	-0.30	-0.10	-0.06	-0.10

*) Bei Stern 11) und 12) lies Sept. 27

Tag	13) ι Ceti		17) ζ Cassiopeiae		18) π Andromedae		20) δ Andromedae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$0^h 26^m$	$-4^\circ 19'$	$0^h 33^m$	$+53^\circ 30'$	$0^h 33^m$	$+33^\circ 20'$	$0^h 35^m$	$+30^\circ 28'$
Jan. 0	30.716 ₁₀₂	82.41 ₅₇	5.866 ₂₅₄	77.32 ₃₉	10.702 ₁₄₆	32.25 ₆₂	37.325 ₁₃₈	69.73 ₆₂
10	30.614 ₉₉	82.98 ₄₇	5.612 ₂₅₃	76.93 ₈₈	10.556 ₁₄₇	31.63 ₉₃	37.187 ₁₃₉	69.11 ₉₀
20	30.515 ₉₃	83.45 ₃₅	5.359 ₂₄₂	76.05 ₁₃₃	10.409 ₁₄₀	30.70 ₁₁₉	37.048 ₁₃₂	68.21 ₁₁₄
30	30.422 ₈₀	83.80 ₂₁	5.117 ₂₁₉	74.72 ₁₇₂	10.269 ₁₂₆	29.51 ₁₄₁	36.916 ₁₂₀	67.07 ₁₃₃
Feb. 9	30.342 ₆₃	84.01 ₄	4.898 ₁₈₄	73.00 ₂₀₃	10.143 ₁₀₄	28.10 ₁₅₆	36.796 ₁₀₀	65.74 ₁₄₆
19	30.279 ₄₀	84.05 ₁₅	4.714 ₁₃₉	70.97 ₂₂₆	10.039 ₇₅	26.54 ₁₆₄	36.696 ₇₂	64.28 ₁₅₂
März 1	30.239 ₁₂	83.90 ₃₅	4.575 ₈₃	68.71 ₂₃₉	9.964 ₃₈	24.90 ₁₆₄	36.624 ₃₇	62.76 ₁₅₀
11	30.227 ₂₀	83.55 ₅₈	4.492 ₂₁	66.32 ₂₄₁	9.926 ₄	23.26 ₁₅₆	36.587 ₃	61.26 ₁₄₂
21	30.247 ₅₈	82.97 ₈₁	4.471 ₄₇	63.91 ₂₃₂	9.930 ₅₁	21.70 ₁₄₀	36.590 ₅₀	59.84 ₁₂₅
31	30.305 ₉₈	82.16 ₁₀₆	4.518 ₁₁₈	61.59 ₂₁₄	9.981 ₁₀₂	20.30 ₁₁₇	36.640 ₉₈	58.59 ₁₀₂
Apr. 10	30.403 ₁₃₈	81.10 ₁₃₀	4.636 ₁₈₉	59.45 ₁₈₆	10.083 ₁₅₂	19.13 ₈₈	36.738 ₁₄₇	57.57 ₇₃
20	30.541 ₁₇₉	79.80 ₁₅₃	4.825 ₂₅₆	57.59 ₁₅₁	10.235 ₂₀₂	18.25 ₅₃	36.885 ₁₉₅	56.84 ₃₉
30	30.720 ₂₁₇	78.27 ₁₇₃	5.081 ₃₁₈	56.08 ₁₁₀	10.437 ₂₄₇	17.72 ₁₆	37.080 ₂₄₀	56.45 ₄
Mai 10	30.937 ₂₅₁	76.54 ₁₉₀	5.399 ₃₇₀	54.98 ₆₄	10.684 ₂₈₇	17.56 ₂₃	37.320 ₂₇₉	56.41 ₃₅
20	31.188 ₂₈₀	74.64 ₂₀₃	5.769 ₄₁₄	54.34 ₁₅	10.971 ₃₂₁	17.79 ₆₃	37.599 ₃₁₂	56.76 ₇₂
30	31.468 ₃₀₃	72.61 ₂₁₁	6.183 ₄₄₅	54.19 ₃₃	11.292 ₃₄₅	18.42 ₁₀₁	37.911 ₃₃₇	57.48 ₁₀₈
Juni 9	31.771 ₃₁₇	70.50 ₂₁₅	6.628 ₄₆₅	54.52 ₈₂	11.637 ₃₆₂	19.43 ₁₃₇	38.248 ₃₅₃	58.56 ₁₄₃
19	32.088 ₃₂₅	68.35 ₂₁₃	7.093 ₄₇₂	55.34 ₁₂₉	11.999 ₃₆₈	20.80 ₁₇₀	38.601 ₃₆₁	59.99 ₁₇₃
29	32.413 ₃₂₃	66.22 ₂₀₅	7.565 ₄₆₆	56.63 ₁₇₂	12.367 ₃₆₅	22.50 ₁₉₈	38.962 ₃₅₈	61.72 ₁₉₉
Juli 9	32.736 ₃₁₃	64.17 ₁₉₃	8.031 ₄₅₁	58.35 ₂₁₁	12.732 ₃₅₃	24.48 ₂₂₁	39.320 ₃₄₇	63.71 ₂₁₉
19	33.049 ₂₉₇	62.24 ₁₇₅	8.482 ₄₂₅	60.46 ₂₄₄	13.085 ₃₃₄	26.69 ₂₃₉	39.667 ₃₂₉	65.90 ₂₃₅
29	33.346 ₂₇₄	60.49 ₁₅₄	8.907 ₃₈₉	62.90 ₂₇₃	13.419 ₃₀₇	29.08 ₂₅₂	39.996 ₃₀₃	68.25 ₂₄₆
Aug. 8	33.620 ₂₄₅	58.94 ₁₃₀	9.296 ₃₄₈	65.63 ₂₉₅	13.726 ₂₇₅	31.60 ₂₅₉	40.299 ₂₇₁	70.71 ₂₅₀
18	33.865 ₂₁₁	57.64 ₁₀₃	9.644 ₂₉₉	68.58 ₃₁₂	14.001 ₂₃₈	34.19 ₂₆₀	40.570 ₂₃₇	73.21 ₂₄₉
28	34.076 ₁₇₅	56.61 ₇₆	9.943 ₂₄₇	71.70 ₃₂₁	14.239 ₁₉₉	36.79 ₂₅₇	40.807 ₁₉₈	75.70 ₂₄₄
Sept. 7	34.251 ₁₃₈	55.85 ₄₈	10.190 ₁₉₄	74.91 ₃₂₄	14.438 ₁₅₈	39.36 ₂₄₈	41.005 ₁₅₈	78.14 ₂₃₅
17	34.389 ₁₀₁	55.37 ₂₂	10.384 ₁₃₉	78.15 ₃₂₂	14.596 ₁₁₇	41.84 ₂₃₆	41.163 ₁₁₉	80.49 ₂₂₀
27	34.490 ₆₅	55.15 ₂	10.523 ₈₅	81.37 ₃₁₃	14.713 ₇₈	44.20 ₂₁₉	41.282 ₈₀	82.69 ₂₀₄
Okt. 6	34.555 ₃₁	55.17 ₂₃	10.608 ₃₂	84.50 ₂₉₈	14.791 ₄₁	46.39 ₁₉₉	41.362 ₄₄	84.73 ₁₈₃
16	34.586 ₂	55.40 ₄₁	10.640 ₁₈	87.48 ₂₇₇	14.832 ₅	48.38 ₁₇₇	41.406 ₁₁	86.56 ₁₆₁
26	34.588 ₂₅	55.81 ₅₄	10.622 ₆₄	90.25 ₂₅₀	14.837 ₂₆	50.15 ₁₅₁	41.417 ₂₁	88.17 ₁₃₆
Nov. 5	34.563 ₄₆	56.35 ₆₅	10.558 ₁₀₈	92.75 ₂₁₇	14.811 ₅₄	51.66 ₁₂₂	41.396 ₄₈	89.53 ₁₀₉
15	34.517 ₆₅	57.00 ₇₁	10.450 ₁₄₇	94.92 ₁₇₉	14.757 ₈₀	52.88 ₉₂	41.348 ₇₂	90.62 ₈₀
25	34.452 ₈₀	57.71 ₇₃	10.303 ₁₈₁	96.71 ₁₃₈	14.677 ₁₀₁	53.80 ₆₀	41.276 ₉₃	91.42 ₄₉
Dez. 5	34.372 ₉₁	58.44 ₇₂	10.122 ₂₁₁	98.09 ₉₁	14.576 ₁₁₉	54.40 ₂₆	41.183 ₁₁₁	91.91 ₁₈
15	34.281 ₉₇	59.16 ₆₈	9.911 ₂₃₃	99.00 ₄₂	14.457 ₁₃₃	54.66 ₈	41.072 ₁₂₄	92.09 ₁₃
25	34.184 ₁₀₂	59.84 ₆₃	9.678 ₂₄₇	99.42 ₉	14.324 ₁₄₂	54.58 ₄₂	40.948 ₁₃₄	91.96 ₄₄
35	34.082	60.47	9.431	99.33	14.182	54.16	40.814	91.52
Mittl. Ort	31.048	78.37	6.953	62.62	11.400	23.06	37.969	61.36
sec δ , tg δ	1.002	-0.076	1.682	+1.352	1.197	+0.658	1.160	+0.589
a, a'	+3.1	+19.9	+3.3	+19.8	+3.2	+19.8	+3.2	+19.8
b, b'	-0.01	-0.12	+0.09	-0.14	+0.04	-0.14	+0.04	-0.15

Tag	21) α Cassiopeiae		22) β Ceti		25) \circ Cassiopeiae		24) 21 Cassiopeiae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$0^h 36^m$	$+56^\circ 9'$	$0^h 40^m$	$-18^\circ 21'$	$0^h 40^m$	$+47^\circ 54'$	$0^h 40^m$	$+74^\circ 36'$
Jan. 0	33.593 ²⁷⁹	48.52 ³²	7.493 ¹¹⁵	62.75 ⁴⁴	51.366 ²¹²	38.72 ³⁹	61.16 ⁷¹	59.01 ¹¹
10	33.314 ²⁷⁹	48.20 ⁸²	7.378 ¹¹⁴	63.19 ¹⁸	51.154 ²¹³	38.33 ⁸³	60.45 ⁷²	59.12 ⁵¹
20	33.035 ²⁶⁷	47.38 ¹²⁹	7.264 ¹⁰⁷	63.37 ⁷	50.941 ²⁶⁶	37.50 ¹²⁴	59.73 ⁶⁸	58.61 ¹¹⁰
30	32.768 ²⁴³	46.09 ¹⁷⁰	7.157 ⁹⁷	63.30 ³⁴	50.735 ¹⁸⁸	36.26 ¹⁵⁹	59.05 ⁶³	57.51 ¹⁶⁴
Feb. 9	32.525 ²⁰⁷	44.39 ²⁰⁴	7.060 ⁷⁹	62.96 ⁶¹	50.547 ¹⁶⁰	34.67 ¹⁸⁷	58.42 ⁵⁴	55.87 ²¹⁰
19	32.318 ¹⁵⁸	42.35 ²³⁰	6.981 ⁵⁷	62.35 ⁸⁸	50.387 ¹²²	32.80 ²⁰⁷	57.88 ⁴³	53.77 ²⁴⁸
März 1	32.160 ¹⁰⁰	40.05 ²⁴⁴	6.924 ²⁹	61.47 ¹¹⁵	50.265 ⁷⁶	30.73 ²¹⁸	57.45 ³⁰	51.29 ²⁷⁵
11	32.060 ³²	37.61 ²⁴⁹	6.895 ⁴	60.32 ¹⁴⁰	50.189 ²²	28.55 ²¹⁸	57.15 ¹⁵	48.54 ²⁸⁹
21	32.028 ⁴¹	35.12 ²⁴¹	6.899 ⁴¹	58.92 ¹⁶⁵	50.167 ³⁹	26.37 ²⁰⁹	57.00 ⁰	45.65 ²⁹²
31	32.069 ¹¹⁷	32.71 ²²⁵	6.940 ⁸²	57.27 ¹⁸⁷	50.206 ¹⁰¹	24.28 ¹⁹¹	57.00 ¹⁵	42.73 ²⁸³
Apr. 10	32.186 ¹⁹²	30.46 ¹⁹⁹	7.022 ¹²⁵	55.40 ²⁰⁷	50.307 ¹⁶⁵	22.37 ¹⁶⁴	57.15 ³¹	39.90 ²⁶²
20	32.378 ²⁶⁴	28.47 ¹⁶⁵	7.147 ¹⁶⁷	53.33 ²²³	50.472 ²²⁶	20.73 ¹³⁰	57.46 ⁴⁶	37.28 ²³¹
30	32.642 ³²⁹	26.82 ¹²³	7.314 ²⁰⁷	51.10 ²³⁵	50.698 ²⁸³	19.43 ⁹⁰	57.92 ⁵⁹	34.97 ¹⁹²
Mai 10	32.971 ³⁸⁶	25.59 ⁷⁷	7.521 ²⁴⁵	48.75 ²⁴³	50.981 ³³¹	18.53 ⁴⁷	58.51 ⁷⁰	33.05 ¹⁴⁷
20	33.357 ⁴³³	24.82 ²⁹	7.766 ²⁷⁷	46.32 ²⁴⁵	51.312 ³⁷³	18.06 ²	59.21 ⁷⁹	31.58 ⁹⁵
30	33.790 ⁴⁶⁶	24.53 ²¹	8.043 ³⁰³	43.87 ²⁴²	51.685 ⁴⁰³	18.04 ⁴⁴	60.00 ⁸⁶	30.63 ⁴²
Juni 9	34.256 ⁴⁸⁹	24.74 ⁷⁰	8.346 ³²¹	41.45 ²³²	52.088 ⁴²³	18.48 ⁹⁰	60.86 ⁹⁰	30.21 ¹³
19	34.745 ⁴⁹⁶	25.44 ¹¹⁹	8.667 ³³²	39.13 ²¹⁸	52.511 ⁴³²	19.38 ¹³³	61.76 ⁹¹	30.34 ⁶⁸
29	35.241 ⁴⁹³	26.63 ¹⁶⁴	8.999 ³³⁴	36.95 ¹⁹⁷	52.943 ⁴²⁹	20.71 ¹⁷³	62.67 ⁹¹	31.02 ¹²¹
Juli 9	35.734 ⁴⁷⁶	28.27 ²⁰⁴	9.333 ³²⁷	34.98 ¹⁷²	53.372 ⁴¹⁷	22.44 ²⁰⁸	63.58 ⁸⁹	32.23 ¹⁷²
19	36.210 ⁴⁵⁰	30.31 ²⁴⁰	9.660 ³¹³	33.26 ¹⁴³	53.789 ³⁹⁵	24.52 ²³⁸	64.47 ⁸⁴	33.95 ²¹⁷
29	36.660 ⁴¹³	32.71 ²⁷⁰	9.973 ²⁹²	31.83 ¹¹⁰	54.184 ³⁶⁵	26.90 ²⁶³	65.31 ⁷⁷	36.12 ²⁵⁹
Aug. 8	37.073 ³⁷⁰	35.41 ²⁹⁵	10.265 ²⁶³	30.73 ⁷⁴	54.549 ³²⁸	29.53 ²⁸²	66.08 ⁶⁹	38.71 ²⁹⁵
18	37.443 ³¹⁹	38.36 ³¹⁴	10.528 ²³¹	29.99 ³⁹	54.877 ²⁸⁵	32.35 ²⁹⁵	66.77 ⁵⁹	41.66 ³²⁴
28	37.762 ²⁶⁵	41.50 ³²⁵	10.759 ¹⁹⁴	29.60 ⁴	55.162 ²³⁹	35.30 ³⁰³	67.36 ⁴⁹	44.90 ³⁴⁸
Sept. 7	38.027 ²⁰⁹	44.75 ³³⁰	10.953 ¹⁵⁵	29.56 ²⁹	55.401 ¹⁹²	38.33 ³⁰³	67.85 ³⁸	48.38 ³⁶⁴
17	38.236 ¹⁵¹	48.05 ³³⁰	11.108 ¹¹⁶	29.85 ⁶⁰	55.593 ¹⁴³	41.36 ²⁹⁹	68.23 ²⁶	52.02 ³⁷²
27	38.387 ⁹³	51.35 ³²³	11.224 ⁷⁸	30.45 ⁸⁵	55.736 ⁹⁵	44.35 ²⁸⁹	68.49 ¹⁴	55.74 ³⁷⁴
Okt. 6	38.480 ³⁷	54.58 ³⁰⁹	11.302 ⁴¹	31.30 ¹⁰⁵	55.831 ⁴⁹	47.24 ²⁷⁴	68.63 ³	59.48 ³⁶⁸
16	38.517 ¹⁶	57.67 ²⁸⁹	11.343 ⁸	32.35 ¹²⁰	55.880 ⁴	49.98 ²⁵³	68.66 ¹⁰	63.16 ³⁵⁴
26	38.501 ⁶⁸	60.56 ²⁶³	11.351 ²²	33.55 ¹²⁸	55.884 ³⁷	52.51 ²²⁷	68.56 ²¹	66.70 ³³²
Nov. 5	38.433 ¹¹⁵	63.19 ²³⁰	11.329 ⁴⁷	34.83 ¹²⁹	55.847 ⁷⁶	54.78 ¹⁹⁶	68.35 ³²	70.02 ³⁰¹
15	38.318 ¹⁵⁸	65.49 ¹⁹³	11.282 ⁶⁹	36.12 ¹²⁴	55.771 ¹¹¹	56.74 ¹⁶²	68.03 ⁴²	73.03 ²⁶⁴
25	38.160 ¹⁹⁶	67.42 ¹⁵⁰	11.213 ⁸⁶	37.36 ¹¹⁴	55.660 ¹⁴¹	58.36 ¹²²	67.61 ⁵²	75.67 ²¹⁸
Dez. 5	37.964 ²²⁹	68.92 ¹⁰³	11.127 ⁹⁹	38.50 ¹⁰⁰	55.519 ¹⁶⁸	59.58 ⁷⁹	67.09 ⁵⁹	77.85 ¹⁶⁶
15	37.735 ²⁵³	69.95 ⁵³	11.028 ¹⁰⁹	39.50 ⁸¹	55.351 ¹⁹⁰	60.37 ³⁵	66.50 ⁶⁶	79.51 ¹¹⁰
25	37.482 ²⁷¹	70.48 ¹	10.910 ¹¹⁴	40.31 ⁵⁸	55.161 ²⁰³	60.72 ¹¹	65.84 ⁷⁰	80.61 ⁴⁹
35	37.211	70.49	10.805	40.89	54.958	60.61	65.14	81.10
Mittl. Ort	34.722	33.10	7.599	54.38	52.248	25.11	63.35	40.32
sec δ , tg δ	1.796	+1.492	1.054	-0.332	1.492	+1.107	3.768	+3.633
a, a'	+3.4	+19.8	+3.0	+19.7	+3.3	+19.7	+3.9	+19.7
b, b'	+0.10	-0.16	-0.02	-0.17	+0.07	-0.18	+0.24	-0.18

Tag	27) ζ Andromedae		32) γ Cassiopeiae		33) μ Andromedae		35) α Sculptoris	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$0^h 43^m$	$+23^\circ 53'$	$0^h 52^m$	$+60^\circ 20'$	$0^h 52^m$	$+38^\circ 7'$	$0^h 55^m$	$-29^\circ 43'$
Jan. 0	40.086 ¹²⁴	38.02 ⁶¹	30.60 ³³	53.28 ⁴	54.346 ¹⁶²	43.00 ⁴⁰	17.021 ¹⁴¹	60.23 ³⁷
10	39.962 ¹²⁶	37.41 ⁸¹	30.27 ³³	53.24 ⁵⁸	54.184 ¹⁶⁶	42.60 ⁷⁶	16.880 ¹⁴⁰	60.60 ²
20	39.836 ¹²²	36.60 ⁹⁹	29.94 ³²	52.66 ¹⁰⁸	54.018 ¹⁶³	41.84 ¹⁰⁷	16.740 ¹³⁶	60.62 ³⁵
30	39.714 ¹¹²	35.61 ¹¹²	29.62 ³⁰	51.58 ¹⁵⁵	53.855 ¹⁵²	40.77 ¹³⁶	16.604 ¹²⁵	60.27 ⁷²
Feb. 9	39.602 ⁹⁵	34.49 ¹²⁰	29.32 ²⁷	50.03 ¹⁹⁴	53.703 ¹³²	39.41 ¹⁵⁶	16.479 ¹⁰⁷	59.55 ¹⁰⁶
19	39.507 ⁷⁰	33.29 ¹²¹	29.05 ²¹	48.09 ²²⁴	53.571 ¹⁰⁴	37.85 ¹⁷⁰	16.372 ⁸⁵	58.49 ¹⁴⁰
März 1	39.437 ³⁹	32.08 ¹¹⁷	28.84 ¹⁵	45.85 ²⁴⁶	53.467 ⁶⁷	36.15 ¹⁷⁶	16.287 ⁵⁶	57.09 ¹⁷¹
11	39.398 ¹	30.91 ¹⁰⁶	28.69 ⁷	43.39 ²⁵⁵	53.400 ²²	34.39 ¹⁷⁴	16.231 ²¹	55.38 ²⁰⁰
21	39.397 ⁴¹	29.85 ⁸⁸	28.62 ¹	40.84 ²⁵⁵	53.378 ²⁸	32.65 ¹⁶³	16.210 ¹⁹	53.38 ²²⁵
31	39.438 ⁸⁶	28.97 ⁶⁵	28.63 ⁹	38.29 ²⁴²	53.406 ⁸²	31.02 ¹⁴⁵	16.229 ⁶²	51.13 ²⁴⁶
Apr. 10	39.524 ¹³²	28.32 ³⁸	28.72 ¹⁸	35.87 ²²¹	53.488 ¹³⁶	29.57 ¹¹⁸	16.291 ¹⁰⁷	48.67 ²⁶³
20	39.656 ¹⁷⁹	27.94 ⁷	28.90 ²⁷	33.66 ¹⁹⁰	53.624 ¹⁹⁰	28.39 ⁸⁷	16.398 ¹⁵⁴	46.04 ²⁷⁶
30	39.835 ²²³	27.87 ²⁷	29.17 ³⁴	31.76 ¹⁵²	53.814 ²⁴⁰	27.52 ⁵¹	16.552 ¹⁹⁸	43.28 ²⁸²
Mai 10	40.058 ²⁶¹	28.14 ⁶¹	29.51 ⁴⁰	30.24 ¹⁰⁸	54.054 ²⁸⁵	27.01 ¹²	16.750 ²⁴⁰	40.46 ²⁸³
20	40.319 ²⁹⁴	28.75 ⁹⁴	29.91 ⁴⁶	29.16 ⁶⁰	54.339 ³²⁴	26.89 ²⁹	16.990 ²⁷⁶	37.63 ²⁷⁸
30	40.613 ³¹⁹	29.69 ¹²⁶	30.37 ⁵¹	28.56 ¹¹	54.663 ³⁵³	27.18 ⁶⁹	17.266 ³⁰⁷	34.85 ²⁶⁶
Juni 9	40.932 ³³⁶	30.95 ¹⁵⁵	30.88 ⁵³	28.45 ⁴⁰	55.016 ³⁷⁴	27.87 ¹⁰⁷	17.573 ³³¹	32.19 ²⁴⁷
19	41.268 ³⁴⁵	32.50 ¹⁷⁹	31.41 ⁵⁴	28.85 ⁹⁰	55.390 ³⁸⁴	28.94 ¹⁴⁴	17.904 ³⁴⁵	29.72 ²²⁴
29	41.613 ³⁴⁴	34.29 ¹⁹⁹	31.95 ⁵⁵	29.75 ¹³⁶	55.774 ³⁸⁵	30.38 ¹⁷⁶	18.249 ³⁵¹	27.48 ¹⁹⁴
Juli 9	41.957 ³³⁶	36.28 ²¹⁴	32.50 ⁵³	31.11 ¹⁸¹	56.159 ³⁷⁶	32.14 ²⁰⁴	18.600 ³⁴⁸	25.54 ¹⁶⁰
19	42.293 ³²⁰	38.42 ²²⁴	33.03 ⁵¹	32.92 ²²⁰	56.535 ³⁶⁰	34.18 ²²⁷	18.948 ³³⁷	23.94 ¹²⁰
29	42.613 ²⁹⁶	40.66 ²²⁹	33.54 ⁴⁷	35.12 ²⁵⁵	56.895 ³³⁵	36.45 ²⁴⁶	19.285 ³¹⁷	22.74 ⁷⁹
Aug. 8	42.909 ²⁶⁸	42.95 ²²⁹	34.01 ⁴³	37.67 ²⁸³	57.230 ³⁰⁵	38.91 ²⁵⁷	19.602 ²⁸⁹	21.95 ³⁷
18	43.177 ²³⁵	45.24 ²²³	34.44 ³⁸	40.50 ³⁰⁷	57.535 ²⁶⁹	41.48 ²⁶⁴	19.891 ²⁵⁷	21.58 ⁶
28	43.412 ¹⁹⁹	47.47 ²¹⁴	34.82 ³²	43.57 ³²³	57.804 ²³⁰	44.12 ²⁶⁶	20.148 ²¹⁹	21.64 ⁴⁸
Sept. 7	43.611 ¹⁶²	49.61 ²⁰¹	35.14 ²⁶	46.80 ³³⁴	58.034 ¹⁸⁹	46.78 ²⁶²	20.367 ¹⁷⁸	22.12 ⁸⁶
17	43.773 ¹²⁴	51.62 ¹⁸⁵	35.40 ²⁰	50.14 ³³⁷	58.223 ¹⁴⁸	49.40 ²⁵⁴	20.545 ¹³⁵	22.98 ¹²⁰
27	43.897 ⁸⁸	53.47 ¹⁶⁶	35.60 ¹³	53.51 ³³⁵	58.371 ¹⁰⁶	51.94 ²⁴²	20.680 ⁹³	24.18 ¹⁴⁷
Okt. 6	43.985 ⁵³	55.13 ¹⁴⁵	35.73 ⁷	56.86 ³²⁶	58.477 ⁶⁷	54.36 ²²⁶	20.773 ⁵²	25.65 ¹⁶⁷
16	44.038 ²¹	56.58 ¹²⁴	35.80 ¹	60.12 ³⁰⁹	58.544 ³⁰	56.62 ²⁰⁴	20.825 ¹⁴	27.32 ¹⁸⁰
26	44.059 ⁹	57.82 ¹⁰¹	35.81 ⁵	63.21 ²⁸⁷	58.574 ⁶	58.66 ¹⁸¹	20.839 ²²	29.12 ¹⁸³
Nov. 5	44.050 ³⁴	58.83 ⁷⁷	35.76 ¹¹	66.08 ²⁵⁷	58.568 ³⁹	60.47 ¹⁵⁴	20.817 ⁵²	30.95 ¹⁷⁹
15	44.016 ⁵⁸	59.60 ⁵²	35.65 ¹⁶	68.65 ²²²	58.529 ⁶⁹	62.01 ¹²⁴	20.765 ⁷⁹	32.74 ¹⁶⁸
25	43.958 ⁷⁸	60.12 ²⁶	35.49 ²¹	70.87 ¹⁸⁰	58.460 ⁹⁵	63.25 ⁹¹	20.686 ¹⁰¹	34.42 ¹⁴⁹
Dez. 5	43.880 ⁹⁶	60.38 ²	35.28 ²⁵	72.67 ¹³³	58.365 ¹¹⁹	64.16 ⁵⁵	20.585 ¹¹⁸	35.91 ¹²³
15	43.784 ¹⁰⁹	60.40 ²³	35.03 ²⁹	74.00 ⁸³	58.246 ¹³⁹	64.71 ¹⁹	20.467 ¹³⁰	37.14 ⁹³
25	43.675 ¹¹⁸	60.17 ⁴⁷	34.74 ³¹	74.83 ²⁹	58.107 ¹⁵³	64.90 ¹⁸	20.337 ¹³⁹	38.07 ⁶⁰
35	43.557	59.70	34.43	75.12	57.954	64.72	20.198	38.67
Mittl. Ort	40.598	31.52	31.68	36.47	54.968	31.69	16.887	48.86
sec δ , tg δ	1.094	+0.443	2.021	+1.756	1.271	+0.785	1.152	-0.571
a, a'	+3.2	+19.7	+3.6	+19.5	+3.3	+19.5	+2.9	+19.5
b, b'	+0.03	-0.19	+0.11	-0.23	+0.05	-0.23	-0.04	-0.24

Tag	36) ε Piscium		38) β Phoenicis		42) β Andromedae		45) υ Piscium	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	0 ^h 59 ^m	+7° 31'	1 ^h 2 ^m	−47° 4'	1 ^h 5 ^m	+35° 15'	1 ^h 15 ^m	+26° 54'
Jan. 0	21.335 ₁₀₆	10.00 ₆₁	60.856 ₂₁₆	93.00 ₁₇	51.233 ₁₄₉	29.57 ₃₄	39.764 ₁₂₇	15.22 ₃₉
10	21.229 ₁₁₀	9.39 ₆₄	60.640 ₂₁₅	93.17 ₃₂	51.084 ₁₅₇	29.23 ₆₆	39.637 ₁₃₅	14.83 ₆₂
20	21.119 ₁₀₉	8.75 ₆₃	60.425 ₂₀₇	92.85 ₈₂	50.927 ₁₅₇	28.57 ₉₆	39.502 ₁₃₈	14.21 ₈₃
30	21.010 ₁₀₃	8.12 ₆₀	60.218 ₁₉₁	92.03 ₁₂₈	50.770 ₁₅₀	27.61 ₁₂₁	39.364 ₁₃₄	13.38 ₁₀₀
Feb. 9	20.907 ₉₀	7.52 ₅₃	60.027 ₁₆₈	90.75 ₁₇₃	50.620 ₁₃₃	26.40 ₁₄₀	39.230 ₁₂₁	12.38 ₁₁₃
19	20.817 ₇₀	6.99 ₄₄	59.859 ₁₃₉	89.02 ₂₁₃	50.487 ₁₀₈	25.00 ₁₅₄	39.109 ₁₀₁	11.25 ₁₂₀
März 1	20.747 ₄₄	6.55 ₂₉	59.720 ₁₀₂	86.89 ₂₄₈	50.379 ₇₅	23.46 ₁₆₀	39.008 ₇₁	10.05 ₁₂₀
11	20.703 ₁₂	6.26 ₁₃	59.618 ₅₈	84.41 ₂₇₈	50.304 ₃₃	21.86 ₁₅₈	38.937 ₃₆	8.85 ₁₁₅
21	20.691 ₂₅	6.13 ₉	59.560 ₉	81.63 ₃₀₃	50.271 ₁₄	20.28 ₁₄₇	38.901 ₇	7.70 ₁₀₂
31	20.716 ₆₇	6.22 ₃₂	59.551 ₄₃	78.60 ₃₂₁	50.285 ₆₆	18.81 ₁₃₁	38.908 ₅₃	6.68 ₈₅
Apr. 10	20.783 ₁₀₉	6.54 ₅₇	59.594 ₉₈	75.39 ₃₃₃	50.351 ₁₁₈	17.50 ₁₀₆	38.961 ₁₀₂	5.83 ₆₁
20	20.892 ₁₅₃	7.11 ₈₃	59.692 ₁₅₄	72.06 ₃₃₉	50.469 ₁₇₂	16.44 ₇₇	39.063 ₁₅₂	5.22 ₃₃
30	21.045 ₁₉₄	7.94 ₁₁₀	59.846 ₂₁₀	68.67 ₃₃₆	50.641 ₂₂₂	15.67 ₄₃	39.215 ₁₉₈	4.89 ₃
Mai 10	21.239 ₂₃₂	9.04 ₁₃₃	60.056 ₂₆₁	65.31 ₃₂₇	50.863 ₂₆₇	15.24 ₇	39.413 ₂₄₂	4.86 ₃₁
20	21.471 ₂₆₅	10.37 ₁₅₆	60.317 ₃₀₇	62.04 ₃₁₁	51.130 ₃₀₇	15.17 ₃₁	39.655 ₂₈₀	5.17 ₆₃
30	21.736 ₂₉₂	11.93 ₁₇₅	60.624 ₃₄₇	58.93 ₂₈₇	51.437 ₃₃₇	15.48 ₆₉	39.935 ₃₁₁	5.80 ₉₅
Juni 9	22.028 ₃₁₁	13.68 ₁₈₉	60.971 ₃₇₈	56.06 ₂₅₇	51.774 ₃₆₀	16.17 ₁₀₅	40.246 ₃₃₃	6.75 ₁₂₆
19	22.339 ₃₂₃	15.57 ₂₀₀	61.349 ₄₀₀	53.49 ₂₂₀	52.134 ₃₇₃	17.22 ₁₃₉	40.579 ₃₄₇	8.01 ₁₅₂
29	22.662 ₃₂₆	17.57 ₂₀₄	61.749 ₄₁₂	51.29 ₁₇₉	52.507 ₃₇₆	18.61 ₁₆₉	40.926 ₃₅₃	9.53 ₁₇₆
Juli 9	22.988 ₃₁₁	19.61 ₂₀₄	62.161 ₄₁₂	49.50 ₁₃₂	52.883 ₃₇₁	20.30 ₁₉₅	41.279 ₃₄₉	11.29 ₁₉₄
19	23.309 ₃₀₈	21.65 ₁₉₉	62.573 ₄₀₂	48.18 ₈₂	53.254 ₃₅₆	22.25 ₂₁₇	41.628 ₃₃₉	13.23 ₂₀₈
29	23.617 ₂₉₀	23.64 ₁₈₈	62.975 ₃₈₁	47.36 ₃₀	53.610 ₃₃₅	24.42 ₂₃₂	41.967 ₃₂₀	15.31 ₂₁₇
Aug. 8	23.907 ₂₆₅	25.52 ₁₇₅	63.356 ₃₅₁	47.06 ₂₂	53.945 ₃₀₈	26.74 ₂₄₃	42.287 ₂₉₆	17.48 ₂₂₀
18	24.172 ₂₃₆	27.27 ₁₅₆	63.707 ₃₁₃	47.28 ₇₂	54.253 ₂₇₅	29.17 ₂₄₈	42.583 ₂₆₇	19.68 ₂₂₀
28	24.408 ₂₀₄	28.83 ₁₃₆	64.020 ₂₆₇	48.00 ₁₂₀	54.528 ₂₃₉	31.65 ₂₄₉	42.850 ₂₃₃	21.88 ₂₁₅
Sept. 7	24.612 ₁₆₉	30.19 ₁₁₄	64.287 ₂₁₆	49.20 ₁₆₁	54.767 ₂₀₀	34.14 ₂₄₅	43.083 ₁₉₉	24.03 ₂₀₆
17	24.781 ₁₃₄	31.33 ₉₁	64.503 ₁₆₃	50.81 ₁₉₈	54.967 ₁₆₁	36.59 ₂₃₇	43.282 ₁₆₃	26.09 ₁₉₃
27	24.915 ₁₀₀	32.24 ₆₈	64.666 ₁₀₇	52.79 ₂₂₅	55.128 ₁₂₂	38.96 ₂₂₄	43.445 ₁₂₇	28.02 ₁₇₈
Okt. 7	25.015 ₆₈	32.92 ₄₆	64.773 ₅₂	55.04 ₂₄₂	55.250 ₈₄	41.20 ₂₀₉	43.572 ₉₂	29.80 ₁₆₁
16	25.083 ₃₇	33.38 ₂₆	64.825 ₁	57.46 ₂₅₁	55.334 ₄₇	43.29 ₁₉₀	43.664 ₅₈	31.41 ₁₄₂
26	25.120 ₉	33.64 ₇	64.824 ₄₉	59.97 ₂₄₈	55.381 ₁₃	45.19 ₁₆₇	43.722 ₂₇	32.83 ₁₂₁
Nov. 5	25.129 ₁₆	33.71 ₉	64.775 ₉₃	62.45 ₂₃₄	55.394 ₂₀	46.86 ₁₄₂	43.749 ₃	34.04 ₉₉
15	25.113 ₃₉	33.62 ₂₃	64.682 ₁₃₁	64.79 ₂₁₁	55.374 ₅₀	48.28 ₁₁₅	43.746 ₃₁	35.03 ₇₅
25	25.074 ₅₉	33.39 ₃₆	64.551 ₁₆₂	66.90 ₁₈₀	55.324 ₇₇	49.43 ₈₅	43.715 ₅₆	35.78 ₅₁
Dez. 5	25.015 ₇₅	33.03 ₄₅	64.389 ₁₈₆	68.70 ₁₄₁	55.247 ₁₀₂	50.28 ₅₃	43.659 ₈₀	36.29 ₂₆
15	24.940 ₉₀	32.58 ₅₃	64.203 ₂₀₄	70.11 ₉₇	55.145 ₁₂₃	50.81 ₁₉	43.579 ₁₀₁	36.55 ₁
25	24.850 ₁₀₀	32.05 ₅₉	63.999 ₂₁₄	71.08 ₄₉	55.022 ₁₄₀	51.00 ₁₄	43.478 ₁₁₇	36.56 ₂₅
35	24.750	31.46	63.785	71.57	54.882	50.86	43.361	36.31
Mittl. Ort	21.585	8.64	60.335	77.40	51.724	18.71	40.098	6.69
sec δ, tg δ	1.009	+0.132	1.469	−1.076	1.225	+0.707	1.121	+0.507
a, a'	+3.1	+19.4	+2.7	+19.3	+3.3	+19.2	+3.3	+19.0
b, b'	+0.01	−0.26	−0.07	−0.27	+0.05	−0.28	+0.03	−0.32

Tag	47) δ Ceti		48) δ Cassiopeiae		50) η Piscium		51) α Cassiopeiae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$1^h 20^m$	$-8^\circ 31'$	$1^h 21^m$	$+59^\circ 52'$	$1^h 27^m$	$+14^\circ 59'$	$1^h 32^m$	$+72^\circ 41'$
Jan. 0	34.458 ¹⁰⁸	83.67 ⁶⁶	16.355 ³⁰⁶	55.91 ³⁰	47.086 ¹⁰⁸	31.03 ⁴⁹	56.78 ⁵⁸	41.14 ⁷⁶
10	34.350 ¹¹⁵	84.33 ⁵⁰	16.049 ³²²	56.21 ²³	46.978 ¹¹⁸	30.54 ⁵⁹	56.20 ⁶²	41.90 ¹⁶
20	34.235 ¹¹⁷	84.83 ³²	15.727 ³²⁶	55.98 ⁷⁴	46.860 ¹²³	29.95 ⁶⁷	55.58 ⁶²	42.06 ⁴³
30	34.118 ¹¹⁴	85.15 ¹²	15.401 ³¹³	55.24 ¹²²	46.737 ¹²¹	29.28 ⁷¹	54.96 ⁶¹	41.63 ¹⁰⁰
Feb. 9	34.004 ¹⁰³	85.27 ⁹	15.088 ²⁸⁶	54.02 ¹⁶⁴	46.616 ¹¹²	28.57 ⁷³	54.35 ⁵⁶	40.63 ¹⁵²
19	33.901 ⁸⁷	85.18 ³¹	14.802 ²⁴⁴	52.38 ²⁰⁰	46.504 ⁹⁵	27.84 ⁷⁰	53.79 ⁴⁸	39.11 ¹⁹⁸
März 1	33.814 ⁶⁴	84.87 ⁵⁴	14.558 ¹⁸⁷	50.38 ²²⁵	46.409 ⁷²	27.14 ⁶³	53.31 ³⁹	37.13 ²³⁵
11	33.750 ³⁴	84.33 ⁷⁸	14.371 ¹¹⁸	48.13 ²⁴¹	46.337 ⁴⁰	26.51 ⁵¹	52.92 ²⁸	34.78 ²⁶⁰
21	33.716 ²	83.55 ¹⁰²	14.253 ⁴¹	45.72 ²⁴⁷	46.297 ³	26.00 ³⁵	52.64 ¹⁵	32.18 ²⁷⁵
31	33.718 ⁴⁰	82.53 ¹²⁶	14.212 ⁴³	43.25 ²⁴¹	46.294 ⁴⁰	25.65 ¹⁶	52.49 ¹	29.43 ²⁷⁹
Apr. 10	33.758 ⁸³	81.27 ¹⁵⁰	14.255 ¹²⁹	40.84 ²²⁶	46.334 ⁸⁴	25.49 ⁸	52.48 ¹³	26.64 ²⁷⁰
20	33.841 ¹²⁷	79.77 ¹⁷¹	14.384 ²¹³	38.58 ²⁰²	46.418 ¹³⁰	25.57 ³⁴	52.61 ²⁸	23.94 ²⁵²
30	33.968 ¹⁶⁹	78.06 ¹⁸⁹	14.597 ²⁹⁴	36.56 ¹⁶⁹	46.548 ¹⁷⁵	25.91 ⁶⁰	52.89 ⁴¹	21.42 ²²³
Mai 10	34.137 ²⁰⁹	76.17 ²⁰⁵	14.891 ³⁶⁵	34.87 ¹³⁰	46.723 ²¹⁷	26.51 ⁸⁸	53.30 ⁵³	19.19 ¹⁸⁸
20	34.346 ²⁴⁵	74.12 ²¹⁷	15.256 ⁴²⁸	33.57 ⁸⁷	46.940 ²⁵³	27.39 ¹¹³	53.83 ⁶³	17.31 ¹⁴⁵
30	34.591 ²⁷⁵	71.95 ²²³	15.684 ⁴⁷⁸	32.70 ⁴¹	47.193 ²⁸⁵	28.52 ¹³⁷	54.46 ⁷²	15.86 ⁹⁸
Juni 9	34.866 ²⁹⁹	69.72 ²²⁵	16.162 ⁵¹⁵	32.29 ⁷	47.478 ³⁰⁸	29.89 ¹⁵⁸	55.18 ⁷⁸	14.88 ⁴⁸
19	35.165 ³¹⁴	67.47 ²¹⁹	16.677 ⁵³⁸	32.36 ⁵⁶	47.786 ³²⁴	31.47 ¹⁷⁵	55.96 ⁸²	14.40 ⁴
29	35.479 ³²¹	65.28 ²¹⁰	17.215 ⁵⁴⁹	32.92 ¹⁰²	48.110 ³³¹	33.22 ¹⁸⁷	56.78 ⁸⁵	14.44 ⁵⁵
Juli 9	35.800 ³²²	63.18 ¹⁹⁵	17.764 ⁵⁴⁴	33.94 ¹⁴⁶	48.441 ³³¹	35.09 ¹⁹⁵	57.63 ⁸⁵	14.99 ¹⁰⁵
19	36.122 ³¹⁴	61.23 ¹⁷⁵	18.308 ⁵²⁹	35.40 ¹⁸⁷	48.772 ³²³	37.04 ¹⁹⁷	58.48 ⁸⁴	16.04 ¹⁵³
29	36.436 ²⁹⁹	59.48 ¹⁴⁹	18.837 ⁵⁰³	37.27 ²²³	49.095 ³⁰⁷	39.01 ¹⁹⁵	59.32 ⁸⁰	17.57 ¹⁹⁸
Aug. 8	36.735 ²⁷⁷	57.99 ¹²²	19.340 ⁴⁶⁶	39.50 ²⁵⁴	49.402 ²⁸⁷	40.96 ¹⁸⁹	60.12 ⁷⁵	19.55 ²³⁸
18	37.012 ²⁵¹	56.77 ⁹¹	19.806 ⁴²¹	42.04 ²⁸⁰	49.689 ²⁶⁰	42.85 ¹⁷⁸	60.87 ⁶⁸	21.93 ²⁷³
28	37.263 ²²⁰	55.86 ⁶⁰	20.227 ³⁷⁰	44.84 ³⁰⁰	49.949 ²³¹	44.63 ¹⁶³	61.55 ⁶¹	24.66 ³⁰³
Sept. 7	37.483 ¹⁸⁷	55.26 ²⁸	20.597 ³¹⁶	47.84 ³¹⁵	50.180 ²⁰⁰	46.26 ¹⁴⁷	62.16 ⁵²	27.69 ³²⁶
17	37.670 ¹⁵³	54.98 ³	20.913 ²⁵⁷	50.99 ³²³	50.380 ¹⁶⁶	47.73 ¹²⁸	62.68 ⁴³	30.95 ³⁴³
27	37.823 ¹¹⁸	55.01 ³⁰	21.170 ¹⁹⁶	54.22 ³²⁵	50.546 ¹³²	49.01 ¹⁰⁹	63.11 ³³	34.38 ³⁵⁴
Okt. 7	37.941 ⁸⁵	55.31 ⁵⁴	21.366 ¹³⁵	57.47 ³²⁰	50.678 ¹⁰⁰	50.10 ⁸⁸	63.44 ²²	37.92 ³⁵⁷
16	38.026 ⁵³	55.85 ⁷⁴	21.501 ⁷³	60.67 ³¹⁰	50.778 ⁶⁹	50.98 ⁶⁸	63.66 ¹²	41.49 ³⁵⁴
26	38.079 ²³	56.59 ⁸⁸	21.574 ¹³	63.77 ²⁹²	50.847 ⁴⁰	51.66 ⁵⁰	63.78 ¹	45.03 ³⁴²
Nov. 5	38.102 ⁵	57.47 ⁹⁸	21.587 ⁴⁷	66.69 ²⁶⁸	50.887 ¹¹	52.16 ³¹	63.79 ¹⁰	48.45 ³²²
15	38.097 ³⁰	58.45 ¹⁰²	21.540 ¹⁰⁵	69.37 ²³⁸	50.898 ¹⁵	52.47 ¹⁴	63.69 ²⁰	51.67 ²⁹⁵
25	38.067 ⁵²	59.47 ¹⁰²	21.435 ¹⁵⁹	71.75 ²⁰²	50.883 ³⁹	52.61 ²	63.49 ³⁰	54.62 ²⁵⁹
Dez. 5	38.015 ⁷¹	60.49 ⁹⁶	21.276 ²⁰⁸	73.77 ¹⁵⁹	50.844 ⁶²	52.59 ¹⁷	63.19 ⁴⁰	57.21 ²¹⁶
15	37.944 ⁸⁸	61.45 ⁸⁷	21.068 ²⁵²	75.36 ¹¹²	50.782 ⁸¹	52.42 ³⁰	62.79 ⁴⁸	59.37 ¹⁶⁶
25	37.856 ¹⁰¹	62.32 ⁷⁵	20.816 ²⁸⁶	76.48 ⁶¹	50.701 ⁹⁸	52.12 ⁴³	62.31 ⁵⁵	61.03 ¹¹¹
35	37.755	63.07	20.530	77.09	50.603	51.69	61.76	62.14
Mittl. Ort	34.425	80.18	17.085	38.46	47.234	26.12	57.72	21.42
sec δ , tg δ	1.010	-0.150	1.993	+1.724	1.035	+0.268	3.361	+3.208
a, a'	+3.0	+18.8	+3.9	+18.8	+3.2	+18.6	+4.8	+18.4
b, b'	-0.01	-0.34	+0.11	-0.35	+0.02	-0.37	+0.20	-0.39

Tag	52) ν Persei		54) α Eridani		55) 43 Cassiopeiae		57) ϕ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	1 ^h 33 ^m	+48° 16'	1 ^h 35 ^m	−57° 34'	1 ^h 37 ^m	+67° 41'	1 ^h 39 ^m	+50° 20'
Jan. 0	44.329	60.52	10.047	89.08	11.46	60.86	19.023	46.35
10	44.130	60.68	9.733	89.47	11.03	61.55	18.814	46.62
20	43.914	60.41	9.412	89.29	10.57	61.67	18.586	46.44
30	43.691	59.72	9.094	88.56	10.10	61.22	18.348	45.83
Feb. 9	43.472	58.64	8.789	87.29	9.65	60.23	18.113	44.81
19	43.268	57.23	8.508	85.51	9.22	58.74	17.893	43.43
März 1	43.091	55.54	8.260	83.27	8.85	56.83	17.700	41.75
11	42.952	53.65	8.054	80.63	8.55	54.58	17.546	39.85
21	42.861	51.66	7.899	77.64	8.34	52.08	17.442	37.81
31	42.828	49.64	7.802	74.38	8.23	49.46	17.397	35.74
Apr. 10	42.857	47.70	7.769	70.90	8.22	46.81	17.417	33.72
20	42.952	45.92	7.805	67.29	8.33	44.25	17.505	31.84
30	43.113	44.38	7.911	63.62	8.56	41.88	17.662	30.18
Mai 10	43.337	43.15	8.087	59.97	8.89	39.79	17.886	28.82
20	43.619	42.27	8.331	56.41	9.31	38.06	18.170	27.81
30	43.952	41.78	8.638	53.03	9.82	36.74	18.508	27.18
Juni 9	44.327	41.70	9.001	49.90	10.40	35.88	18.891	26.97
19	44.734	42.04	9.411	47.10	11.03	35.51	19.308	27.19
29	45.162	42.80	9.859	44.69	11.70	35.63	19.749	27.82
Juli 9	45.602	43.95	10.331	42.73	12.40	36.25	20.202	28.86
19	46.041	45.47	10.816	41.29	13.09	37.36	20.657	30.28
29	46.470	47.31	11.301	40.39	13.77	38.92	21.102	32.05
Aug. 8	46.880	49.44	11.772	40.05	14.42	40.89	21.530	34.11
18	47.263	51.80	12.216	40.28	15.03	43.24	21.931	36.43
28	47.614	54.35	12.623	41.08	15.60	45.92	22.299	38.96
Sept. 7	47.926	57.03	12.982	42.41	16.10	48.88	22.629	41.64
17	48.196	59.79	13.283	44.22	16.53	52.04	22.917	44.43
27	48.423	62.58	13.520	46.44	16.89	55.36	23.160	47.26
Okt. 7	48.605	65.34	13.689	48.98	17.18	58.76	23.356	50.08
16*)	48.741	68.03	13.787	51.75	17.38	62.19	23.505	52.85
26	48.832	70.60	13.816	54.63	17.50	65.56	23.607	55.52
Nov. 5	48.878	72.99	13.777	57.51	17.54	68.81	23.661	58.02
15	48.880	75.16	13.674	60.26	17.50	71.87	23.669	60.31
25	48.840	77.06	13.514	62.78	17.37	74.65	23.632	62.34
Dez. 5	48.759	78.65	13.305	64.97	17.16	77.09	23.551	64.06
15	48.640	79.88	13.053	66.74	16.88	79.11	23.429	65.42
25	48.487	80.72	12.769	68.01	16.54	80.66	23.270	66.38
35	48.305	81.15	12.462	68.75	16.14	81.69	23.079	66.91
Mittl. Ort	44.748	45.39	8.844	73.04	12.15	41.78	19.414	30.63
sec δ , lg δ	1.503	+1.122	1.866	−1.575	2.635	+2.438	1.567	+1.206
a, a'	+3.7	+18.4	+2.2	+18.3	+4.4	+18.3	+3.7	+18.2
b, b'	+0.07	−0.40	−0.10	−0.40	+0.15	−0.41	+0.07	−0.42

*) Bei Stern 57) lies Okt. 17

Tag	59) τ Ceti ¹⁾		60) ν Piscium		61) Lac. ϵ Sculptoris		62) ζ Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$1^h 40^m$	$-16^\circ 17'$	$1^h 41^m$	$+8^\circ 48'$	$1^h 42^m$	$-25^\circ 23'$	$1^h 48^m$	$-10^\circ 40'$
Jan. 0	51.960 ¹¹⁹	66.81 ⁷⁰	44.811 ¹⁰²	43.09 ⁵⁴	25.177 ¹³²	58.06 ⁷⁶	3.426 ¹⁰⁷	34.31 ⁷⁵
10	51.841 ¹²⁹	67.51 ⁴⁵	44.709 ¹¹⁴	42.55 ⁵⁷	25.045 ¹⁴²	58.82 ⁴³	3.319 ¹¹⁹	35.06 ⁵⁶
20	51.712 ¹³³	67.96 ¹⁹	44.595 ¹²¹	41.98 ⁵⁷	24.903 ¹⁴⁶	59.25 ⁷	3.200 ¹²⁶	35.62 ³⁵
30	51.579 ¹³²	68.15 ⁹	44.474 ¹²¹	41.41 ⁵⁵	24.757 ¹⁴⁵	59.32 ²⁸	3.074 ¹²⁷	35.97 ¹³
Feb. 9	51.447 ¹²⁴	68.06 ³⁸	44.353 ¹¹⁶	40.86 ⁵⁰	24.612 ¹³⁶	59.04 ⁶³	2.947 ¹²¹	36.10 ¹⁰
19	51.323 ¹⁰⁹	67.68 ⁶⁶	44.237 ¹⁰¹	40.36 ⁴³	24.476 ¹²¹	58.41 ⁹⁸	2.826 ¹⁰⁸	36.00 ³⁵
März 1	51.214 ⁸⁷	67.02 ⁹⁴	44.136 ⁸⁰	39.93 ³²	24.355 ⁹⁹	57.43 ¹³⁰	2.718 ⁸⁸	35.65 ⁶⁰
11	51.127 ⁵⁸	66.08 ¹²¹	44.056 ⁵¹	39.61 ¹⁷	24.256 ⁶⁸	56.13 ¹⁶²	2.630 ⁶¹	35.05 ⁸⁵
21	51.069 ²³	64.87 ¹⁴⁸	44.005 ¹⁵	39.44 ¹	24.188 ³³	54.51 ¹⁹¹	2.569 ²⁷	34.20 ¹¹¹
31	51.046 ¹⁶	63.39 ¹⁷³	43.990 ²⁴	39.45 ²¹	24.155 ⁹	52.60 ²¹⁶	2.542 ¹²	33.09 ¹³⁵
Apr. 10	51.062 ⁵⁹	61.66 ¹⁹⁵	44.014 ⁶⁸	39.66 ⁴⁴	24.164 ⁵³	50.44 ²³⁸	2.554 ⁵⁴	31.74 ¹⁵⁸
20	51.121 ¹⁰⁴	59.71 ²¹⁵	44.082 ¹¹⁴	40.10 ⁶⁸	24.217 ¹⁰⁰	48.06 ²⁵⁶	2.608 ⁹⁹	30.16 ¹⁸⁰
30	51.225 ¹⁴⁸	57.56 ²³¹	44.196 ¹⁵⁸	40.78 ⁹²	24.317 ¹⁴⁶	45.50 ²⁷⁰	2.707 ¹⁴²	28.36 ¹⁹⁹
Mai 10	51.373 ¹⁹¹	55.25 ²⁴³	44.354 ²⁰⁰	41.70 ¹¹⁶	24.463 ¹⁹⁰	42.80 ²⁷⁶	2.849 ¹⁸⁵	26.37 ²¹⁴
20	51.564 ²²⁹	52.82 ²⁴⁹	44.554 ²³⁷	42.86 ¹³⁸	24.653 ²³²	40.04 ²⁷⁸	3.034 ²²⁴	24.23 ²²⁴
30	51.793 ²⁶²	50.33 ²⁵⁰	44.791 ²⁷⁰	44.24 ¹⁵⁸	24.885 ²⁶⁷	37.26 ²⁷⁵	3.258 ²⁵⁸	21.99 ²³¹
Juni 9	52.055 ²⁸⁹	47.83 ²⁴⁶	45.061 ²⁹⁶	45.82 ¹⁷³	25.152 ²⁹⁷	34.51 ²⁶³	3.516 ²⁸⁴	19.68 ²³²
19	52.344 ³⁰⁸	45.37 ²³⁵	45.357 ³¹³	47.55 ¹⁸⁵	25.449 ³¹⁸	31.88 ²⁴⁵	3.800 ³⁰⁴	17.36 ²²⁶
29	52.652 ³²⁰	43.02 ²¹⁹	45.670 ³²³	49.40 ¹⁹¹	25.767 ³³²	29.43 ²²¹	4.104 ³¹⁷	15.10 ²¹⁵
Juli 9	52.972 ³²³	40.83 ¹⁹⁶	45.993 ³²⁵	51.31 ¹⁹³	26.099 ³³⁷	27.22 ¹⁹²	4.421 ³²²	12.95 ¹⁹⁹
19	53.295 ³¹⁸	38.87 ¹⁷⁰	46.318 ³²⁰	53.24 ¹⁹¹	26.436 ³³⁴	25.30 ¹⁵⁸	4.743 ³¹⁸	10.96 ¹⁷⁷
29	53.613 ³⁰⁶	37.17 ¹³⁷	46.638 ³⁰⁷	55.15 ¹⁸²	26.770 ³²³	23.72 ¹¹⁸	5.061 ³⁰⁷	9.19 ¹⁵¹
Aug. 8	53.919 ²⁸⁷	35.80 ¹⁰³	46.945 ²⁸⁸	56.97 ¹⁷⁰	27.093 ³⁰⁵	22.54 ⁷⁷	5.368 ²⁹⁰	7.68 ¹²¹
18	54.206 ²⁶³	34.77 ⁶⁶	47.233 ²⁶⁵	58.67 ¹⁵⁵	27.398 ²⁸⁰	21.77 ³⁵	5.658 ²⁶⁸	6.47 ⁸⁹
28	54.469 ²³³	34.11 ²⁹	47.498 ²³⁸	60.22 ¹³⁵	27.678 ²⁴⁹	21.42 ⁹	5.926 ²⁴¹	5.58 ⁵⁴
Sept. 7	54.702 ²⁰²	33.82 ⁸	47.736 ²⁰⁸	61.57 ¹¹⁴	27.927 ²¹⁶	21.51 ⁵¹	6.167 ²¹¹	5.04 ²⁰
17	54.904 ¹⁶⁷	33.90 ⁴³	47.944 ¹⁷⁶	62.71 ⁹³	28.143 ¹⁸⁰	22.02 ⁸⁸	6.378 ¹⁷⁸	4.84 ¹²
27	55.071 ¹³²	34.33 ⁷³	48.120 ¹⁴⁴	63.64 ⁷⁰	28.323 ¹⁴²	22.90 ¹²²	6.556 ¹⁴⁵	4.96 ⁴²
Okt. 7	55.203 ⁹⁶	35.06 ¹⁰⁰	48.264 ¹¹²	64.34 ⁴⁸	28.465 ¹⁰⁴	24.12 ¹⁴⁹	6.701 ¹¹²	5.38 ⁶⁹
17	55.299 ⁶³	36.06 ¹²⁰	48.376 ⁸¹	64.82 ²⁹	28.569 ⁶⁸	25.61 ¹⁶⁹	6.813 ⁷⁹	6.07 ⁹⁰
26	55.362 ¹⁷	37.26 ¹³⁴	48.457 ⁵²	65.11 ¹⁰	28.637 ³²	27.30 ¹⁸¹	6.892 ⁴⁹	6.97 ¹⁰⁶
Nov. 5	55.393 ¹	38.60 ¹⁴⁰	48.509 ²⁴	65.21 ⁵	28.669 ²	29.11 ¹⁸⁵	6.941 ¹⁹	8.03 ¹¹⁶
15	55.394 ²⁷	40.00 ¹⁴¹	48.533 ³	65.16 ¹⁹	28.667 ³²	30.96 ¹⁸⁰	6.960 ⁹	9.19 ¹²⁰
25	55.367 ⁵²	41.41 ¹³⁴	48.530 ²⁸	64.97 ³¹	28.635 ⁵⁹	32.76 ¹⁶⁸	6.951 ³⁵	10.39 ¹¹⁹
Dez. 5	55.315 ⁷⁵	42.75 ¹²³	48.502 ⁵²	64.66 ⁴⁰	28.576 ⁸⁵	34.44 ¹⁵⁰	6.916 ⁵⁸	11.58 ¹¹²
15	55.240 ⁹⁵	43.98 ¹⁰⁶	48.450 ⁷²	64.26 ⁴⁷	28.491 ¹⁰⁶	35.94 ¹²⁶	6.858 ⁷⁹	12.70 ¹⁰¹
25	55.145 ¹¹⁰	45.04 ⁸⁵	48.378 ⁹¹	63.79 ⁵²	28.385 ¹²³	37.20 ⁹⁶	6.779 ⁹⁷	13.71 ⁸⁷
35	55.035	45.89	48.287	63.27	28.262	38.16	6.682	14.58
Mittl. Ort	51.739	61.43	44.822	39.85	24.803	50.06	3.212	31.19
sec δ , tg δ	1.042	-0.292	1.012	+0.155	1.107	-0.475	1.018	-0.189
a, a'	+2.9	+18.1	+3.2	+18.1	+2.8	+18.1	+3.0	+17.9
b, b'	-0.02	-0.43	+0.01	-0.43	-0.03	-0.43	-0.01	-0.45

¹⁾ Die jährliche Parallaxe (0.31) ist bereits berücksichtigt.

Obere Kulmination Greenwich

35*

Tag	64) α Trianguli		63) ϵ Cassiopeiae		65) ξ Piscium		66) β Arietis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	1 ^h 49 ^m	+29° 14'	1 ^h 49 ^m	+63° 19'	1 ^h 49 ^m	+2° 50'	1 ^h 50 ^m	+20° 28'
Jan. 0	8.408 ¹²²	46.38 ¹⁵	24.12 ³⁴	70.94 ⁷²	58.960 ⁹⁹	52.32 ⁶²	49.350 ¹⁰⁸	24.60 ³³
10	8.286 ¹³⁹	46.23 ⁴⁰	23.78 ³⁶	71.66 ¹⁸	58.861 ¹¹²	51.70 ⁵⁸	49.242 ¹²³	24.27 ⁴⁷
20	8.147 ¹⁴⁹	45.83 ⁶³	23.42 ³⁸	71.84 ³⁵	58.749 ¹²¹	51.12 ⁵¹	49.119 ¹³³	23.80 ⁶¹
30	7.998 ¹⁵¹	45.20 ⁸²	23.04 ³⁸	71.49 ⁸⁷	58.628 ¹²³	50.61 ⁴²	48.986 ¹³⁵	23.19 ⁷²
Feb. 9	7.847 ¹⁴⁴	44.38 ⁹⁹	22.66 ³⁵	70.62 ¹³⁵	58.505 ¹¹⁷	50.19 ³²	48.851 ¹³⁰	22.47 ⁷⁹
19	7.703 ¹²⁹	43.39 ¹¹¹	22.31 ³²	69.27 ¹⁷⁶	58.388 ¹⁰⁶	49.87 ¹⁹	48.721 ¹¹⁶	21.68 ⁸³
März 1	7.574 ¹⁰⁴	42.28 ¹¹⁷	21.99 ²⁶	67.51 ²⁰⁹	58.282 ⁸⁵	49.68 ⁴	48.605 ⁹⁴	20.85 ⁸¹
11	7.470 ⁷⁰	41.11 ¹¹⁷	21.73 ¹⁹	65.42 ²³³	58.197 ⁵⁸	49.64 ¹⁴	48.511 ⁶³	20.04 ⁷⁵
21	7.400 ²⁹	39.94 ¹¹⁰	21.54 ¹¹	63.09 ²⁴⁶	58.139 ²⁴	49.78 ³⁵	48.448 ²⁶	19.29 ⁶⁴
31	7.371 ¹⁷	38.84 ⁹⁸	21.43 ²	60.53 ²⁴⁹	58.115 ¹⁵	50.13 ⁵⁶	48.422 ¹⁶	18.65 ⁴⁸
April 10	7.388 ⁶⁸	37.86 ⁸⁰	21.41 ⁸	58.14 ²⁴²	58.130 ⁵⁸	50.69 ⁷⁸	48.438 ⁶³	18.17 ²⁸
20	7.456 ¹¹⁹	37.06 ⁵⁶	21.49 ¹⁸	55.72 ²²⁵	58.188 ¹⁰²	51.47 ¹⁰²	48.501 ¹¹¹	17.89 ⁵
30	7.575 ¹⁶⁹	36.50 ²⁹	21.67 ²⁷	53.47 ¹⁹⁹	58.290 ¹⁴⁶	52.49 ¹²⁵	48.612 ¹⁵⁹	17.84 ²²
Mai 10	7.744 ²¹⁷	36.21 ²	21.94 ³⁵	51.48 ¹⁶⁵	58.436 ¹⁸⁹	53.74 ¹⁴⁶	48.771 ²⁰³	18.06 ⁴⁹
20	7.961 ²⁶⁰	36.23 ³²	22.29 ⁴³	49.83 ¹²⁶	58.625 ²²⁸	55.20 ¹⁶⁴	48.974 ²⁴⁴	18.55 ⁷⁶
30	8.221 ²⁹⁶	36.55 ⁶³	22.72 ⁴⁹	48.57 ⁸⁴	58.853 ²⁶⁰	56.84 ¹⁷⁹	49.218 ²⁷⁹	19.31 ¹⁰³
Juni 9	8.517 ³²⁴	37.18 ⁹³	23.21 ⁵⁴	47.73 ³⁷	59.113 ²⁸⁶	58.63 ¹⁹¹	49.497 ³⁰⁶	20.34 ¹²⁶
19	8.841 ³⁴⁵	38.11 ¹²¹	23.75 ⁵⁸	47.36 ¹¹	59.399 ³⁰⁶	60.54 ¹⁹⁷	49.803 ³²⁵	21.60 ¹⁴⁸
29	9.186 ³⁵⁶	39.32 ¹⁴⁶	24.33 ⁶⁰	47.47 ⁵⁸	59.705 ³¹⁸	62.51 ¹⁹⁹	50.128 ³³⁶	23.08 ¹⁶⁵
Juli 9	9.542 ³⁵⁸	40.78 ¹⁶⁷	24.93 ⁶¹	48.05 ¹⁰³	60.023 ³²¹	64.50 ¹⁹⁵	50.464 ³⁴⁰	24.73 ¹⁷⁸
19	9.900 ³⁵³	42.45 ¹⁸⁴	25.54 ⁶⁰	49.08 ¹⁴⁶	60.344 ³¹⁷	66.45 ¹⁸⁶	50.804 ³³⁵	26.51 ¹⁸⁷
29	10.253 ³⁴¹	44.29 ¹⁹⁶	26.14 ⁵⁷	50.54 ¹⁸⁷	60.661 ³⁰⁶	68.31 ¹⁷³	51.139 ³²⁴	28.38 ¹⁹¹
Aug. 8	10.594 ³²¹	46.25 ²⁰⁴	26.71 ⁵⁵	52.41 ²²²	60.967 ²⁹⁰	70.04 ¹⁵⁵	51.463 ³⁰⁵	30.29 ¹⁸⁹
18	10.915 ²⁹⁷	48.29 ²⁰⁶	27.26 ⁵¹	54.63 ²⁵³	61.257 ²⁶⁷	71.59 ¹³⁴	51.768 ²⁸²	32.18 ¹⁸⁵
28	11.212 ²⁶⁸	50.35 ²⁰⁶	27.77 ⁴⁶	57.16 ²⁷⁹	61.524 ²⁴¹	72.93 ¹¹⁰	52.050 ²⁵⁵	34.03 ¹⁷⁶
Sept. 7	11.480 ²³⁶	52.41 ²⁰⁰	28.23 ⁴⁰	59.95 ²⁹⁸	61.765 ²¹¹	74.03 ⁸⁵	52.305 ²²⁵	35.79 ¹⁶⁴
17	11.716 ²⁰³	54.41 ¹⁹²	28.63 ³⁴	62.93 ³¹⁴	61.976 ¹⁸¹	74.88 ⁵⁹	52.530 ¹⁹³	37.43 ¹⁴⁹
27	11.919 ¹⁶⁸	56.33 ¹⁸⁰	28.97 ²⁸	66.07 ³²²	62.157 ¹⁵⁰	75.47 ³⁴	52.723 ¹⁶¹	38.92 ¹³⁴
Okt. 7	12.087 ¹³⁴	58.13 ¹⁶⁷	29.25 ²¹	69.29 ³²⁴	62.307 ¹¹⁸	75.81 ¹¹	52.884 ¹²⁸	40.26 ¹¹⁶
17	12.221 ¹⁰⁰	59.80 ¹⁵¹	29.46 ¹⁵	72.53 ³²⁰	62.425 ⁸⁷	75.92 ⁹	53.012 ⁹⁷	41.42 ⁹⁸
26	12.321 ⁶⁶	61.31 ¹³³	29.61 ⁷	75.73 ³⁰⁹	62.512 ⁵⁸	75.83 ²⁷	53.109 ⁶⁶	42.40 ⁸⁰
Nov. 5	12.387 ³⁴	62.64 ¹¹⁴	29.68 ⁰	78.82 ²⁹²	62.570 ²⁹	75.56 ⁴²	53.175 ³⁶	43.20 ⁶³
15	12.421 ²	63.78 ⁹³	29.68 ⁶	81.74 ²⁶⁶	62.599 ²	75.14 ⁵²	53.211 ⁶	43.83 ⁴⁵
25	12.423 ²⁸	64.71 ⁷²	29.62 ¹⁴	84.40 ²³⁴	62.601 ²⁴	74.62 ⁶⁰	53.217 ²²	44.28 ²⁷
Dez. 5	12.395 ⁵⁸	65.43 ⁴⁸	29.48 ²⁰	86.74 ¹⁹⁷	62.577 ⁴⁷	74.02 ⁶⁴	53.195 ⁴⁸	44.55 ¹⁰
15	12.337 ⁸⁵	65.91 ²⁴	29.28 ²⁶	88.71 ¹⁵²	62.530 ⁶⁹	73.38 ⁶⁵	53.147 ⁷³	44.65 ⁸
25	12.252 ¹⁰⁸	66.15 ¹	29.02 ³⁰	90.23 ¹⁰³	62.461 ⁸⁸	72.73 ⁶⁵	53.074 ⁹⁵	44.57 ²⁴
35	12.144	66.14	28.72	91.26	62.373	72.08	52.979	44.33
Mittl. Ort	8.539	36.27	24.55	52.41	58.872	50.84	49.403	17.22
sec δ , tg δ	1.146	+0.560	2.228	+1.991	1.001	+0.050	1.067	+0.373
a, a'	+3.4	+17.8	+4.3	+17.8	+3.1	+17.8	+3.3	+17.7
b, b'	+0.03	-0.46	+0.12	-0.46	0.00	-0.46	+0.02	-0.46

Tag	67) ψ Phoenicis		68) χ Eridani		72) α Hydri		71) υ Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	1 ^h 50 ^m	—46° 37'	1 ^h 53 ^m	—51° 56'	1 ^h 56 ^m	—61° 53'	1 ^h 56 ^m	—21° 24'
Jan. 0	53.734 ²¹⁷	98.30 ⁷³	17.452 ²⁵⁵	81.94 ⁶⁹	37.39 ³⁷	94.48 ⁶⁰	45.624 ¹²¹	47.52 ⁸⁵
10	53.517 ²²⁹	99.03 ²²	17.197 ²⁶⁸	82.63 ¹⁵	37.02 ³⁹	95.08 ³	45.503 ¹³⁵	48.37 ⁵⁶
20	53.288 ²³³	99.25 ²⁹	16.929 ²⁷¹	82.78 ³⁹	36.63 ³⁹	95.11 ⁵⁶	45.368 ¹⁴²	48.93 ²³
30	53.055 ²²⁹	98.96 ⁸⁰	16.658 ²⁶⁶	82.39 ⁹²	36.24 ³⁹	94.55 ¹¹³	45.226 ¹⁴³	49.16 ⁹
Feb. 9	52.826 ²¹⁶	98.16 ¹²⁷	16.392 ²⁵¹	81.47 ¹⁴²	35.85 ³⁶	93.42 ¹⁶⁵	45.083 ¹³⁹	49.07 ⁴²
19	52.610 ¹⁹⁶	96.89 ¹⁷³	16.141 ²²⁷	80.05 ¹⁸⁹	35.49 ³³	91.77 ²¹⁴	44.944 ¹²⁶	48.65 ⁷⁵
März 1	52.414 ¹⁶⁵	95.16 ²¹⁴	15.914 ¹⁹⁵	78.16 ²³¹	35.16 ²⁸	89.63 ²⁵⁸	44.818 ¹⁰⁵	47.90 ¹⁰⁶
11	52.249 ¹²⁸	93.02 ²⁵⁰	15.719 ¹⁵²	75.85 ²⁶⁹	34.88 ²³	87.05 ²⁹⁴	44.713 ⁷⁸	46.84 ¹³⁷
21	52.121 ⁸³	90.52 ²⁸¹	15.567 ¹⁰³	73.16 ³⁰⁰	34.65 ¹⁷	84.11 ³²⁶	44.635 ⁴⁴	45.47 ¹⁶⁶
31	52.038 ³²	87.71 ³⁰⁷	15.464 ⁴⁸	70.16 ³²⁵	34.48 ¹⁰	80.85 ³⁵⁰	44.591 ⁴	43.81 ¹⁹²
Apr. 10	52.006 ²³	84.64 ³²⁶	15.416 ¹³	66.91 ³⁴³	34.38 ²	77.35 ³⁶⁵	44.587 ³⁹	41.89 ²¹⁵
20	52.029 ⁸⁰	81.38 ³³⁸	15.429 ⁷⁵	63.48 ³⁵⁴	34.36 ⁶	73.70 ³⁷⁴	44.626 ⁸⁵	39.74 ²³⁵
30	52.109 ¹³⁸	78.00 ³⁴⁵	15.504 ¹³⁹	59.94 ³⁵⁸	34.42 ¹⁴	69.96 ³⁷⁵	44.711 ¹³¹	37.39 ²⁵¹
Mai 10	52.247 ¹⁹⁵	74.55 ³⁴²	15.643 ²⁰¹	56.36 ³⁵⁴	34.56 ²²	66.21 ³⁶⁷	44.842 ¹⁷⁶	34.88 ²⁶²
20	52.442 ²⁴⁷	71.13 ³³³	15.844 ²⁵⁹	52.82 ³⁴³	34.78 ²⁹	62.54 ³⁵⁰	45.018 ²¹⁷	32.26 ²⁶⁷
30	52.689 ²⁹⁴	67.80 ³¹⁶	16.103 ³¹¹	49.39 ³²³	35.07 ³⁶	59.04 ³²⁸	45.235 ²⁵³	29.59 ²⁶⁶
Juni 9	52.983 ³³⁴	64.64 ²⁹¹	16.414 ³⁵⁶	46.16 ²⁹⁵	35.43 ⁴²	55.76 ²⁹⁶	45.488 ²⁸⁴	26.93 ²⁵⁹
19	53.317 ³⁶⁶	61.73 ²⁶⁰	16.770 ³⁹³	43.21 ²⁶²	35.85 ⁴⁷	52.80 ²⁵⁶	45.772 ³⁰⁷	24.34 ²⁴⁵
29	53.683 ³⁸⁸	59.13 ²²¹	17.163 ⁴¹⁸	40.59 ²²⁰	36.32 ⁵⁰	50.24 ²¹²	46.079 ³²¹	21.89 ²²⁶
Juli 9	54.071 ⁴⁰⁰	56.92 ¹⁷⁷	17.581 ⁴³²	38.39 ¹⁷³	36.82 ⁵²	48.12 ¹⁶¹	46.400 ³²⁹	19.63 ²⁰⁰
19	54.471 ⁴⁰¹	55.15 ¹²⁹	18.013 ⁴³⁶	36.66 ¹²²	37.34 ⁵³	46.51 ¹⁰⁶	46.729 ³²⁸	17.63 ¹⁷⁰
29	54.872 ³⁹²	53.86 ⁷⁶	18.449 ⁴²⁸	35.44 ⁶⁷	37.87 ⁵³	45.45 ⁴⁷	47.057 ³²⁰	15.93 ¹³⁴
Aug. 8	55.264 ³⁷⁴	53.10 ²²	18.877 ⁴⁰⁸	34.77 ¹¹	38.40 ⁵¹	44.98 ¹¹	47.377 ³⁰³	14.59 ⁹⁵
18	55.638 ³⁴⁵	52.88 ³³	19.285 ³⁷⁹	34.66 ⁴⁵	38.91 ⁴⁷	45.09 ⁷⁰	47.680 ²⁸²	13.64 ⁵⁵
28	55.983 ³¹⁰	53.21 ⁸⁵	19.664 ³⁴⁰	35.11 ¹⁰⁰	39.38 ⁴²	45.79 ¹²⁶	47.962 ²⁵⁵	13.09 ¹³
Sept. 7	56.293 ²⁶⁷	54.06 ¹³⁴	20.004 ²⁹⁴	36.11 ¹⁵⁰	39.80 ³⁷	47.05 ¹⁷⁷	48.217 ²²³	12.96 ²⁸
17	56.560 ²²⁰	55.40 ¹⁷⁸	20.298 ²⁴¹	37.61 ¹⁹⁴	40.17 ³⁰	48.82 ²²²	48.440 ¹⁹⁰	13.24 ⁶⁶
27	56.780 ¹⁶⁹	57.18 ²¹⁴	20.539 ¹⁸⁵	39.55 ²³¹	40.47 ²²	51.04 ²⁵⁹	48.630 ¹⁵⁵	13.90 ¹⁰⁰
Okt. 7	56.949 ¹¹⁷	59.32 ²⁴³	20.724 ¹²⁵	41.86 ²⁵⁹	40.69 ¹⁴	53.63 ²⁸⁵	48.785 ¹²⁰	14.90 ¹²⁸
17	57.066 ⁶⁴	61.75 ²⁶⁰	20.849 ⁶⁶	44.45 ²⁷⁵	40.83 ⁶	56.48 ²⁹⁹	48.905 ⁸⁴	16.18 ¹⁵⁰
26	57.130 ¹³	64.35 ²⁶⁶	20.915 ⁸	47.20 ²⁸²	40.89 ²	59.47 ³⁰³	48.989 ⁵⁰	17.68 ¹⁶⁶
Nov. 5	57.143 ³⁶	67.01 ²⁶³	20.923 ⁴⁸	50.02 ²⁷⁵	40.87 ⁹	62.50 ²⁹⁴	49.039 ¹⁷	19.34 ¹⁷²
15	57.107 ⁸⁰	69.64 ²⁴⁸	20.875 ¹⁰⁰	52.77 ²⁵⁸	40.78 ¹⁷	65.44 ²⁷³	49.056 ¹³	21.06 ¹⁷¹
25	57.027 ¹²⁰	72.12 ²²³	20.775 ¹⁴⁵	55.35 ²³¹	40.61 ²³	68.17 ²⁴¹	49.043 ⁴²	22.77 ¹⁶³
Dez. 5	56.907 ¹⁵⁶	74.35 ¹⁹⁰	20.630 ¹⁸⁶	57.66 ¹⁹⁵	40.38 ²⁸	70.58 ¹⁹⁹	49.001 ⁶⁸	24.40 ¹⁴⁹
15	56.751 ¹⁸⁴	76.25 ¹⁵⁰	20.444 ²¹⁸	59.61 ¹⁵²	40.10 ³³	72.57 ¹⁵²	48.933 ⁹¹	25.89 ¹²⁸
25	56.567 ²⁰⁸	77.75 ¹⁰⁴	20.226 ²⁴⁵	61.13 ¹⁰²	39.77 ³⁶	74.09 ⁹⁷	48.842 ¹¹¹	27.17 ¹⁰³
35	56.359	78.79	19.981	62.15	39.41	75.06	48.731	28.20
Mittl. Ort sec δ , tg δ	52.837 1.456	85.23 —1.059	16.343 1.623	67.94 —1.278	35.70 2.123	79.05 —1.873	45.225 1.074	41.39 —0.392
a, a'	+2.4	+17.7	+2.3	+17.6	+1.9	+17.5	+2.8	+17.5
b, b'	—0.06	—0.47	—0.07	—0.47	—0.11	—0.49	—0.02	—0.49

Obere Kulmination Greenwich

37*

Tag	70) 50 Cassiopeiae		73) γ Andromedae		74) α Arietis		75) β Trianguli	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	1 ^h 57 ^m	+72° 5'	1 ^h 59 ^m	+41° 59'	2 ^h 3 ^m	+23° 8'	2 ^h 5 ^m	+34° 39'
Jan. 0	29.69 ⁵³	38.71 ¹⁰⁶	39.142 ¹⁵⁶	71.78 ²⁴	16.707 ¹⁰⁷	21.76 ²²	25.774 ¹²⁹	54.37 ⁹
10	29.16 ⁵⁷	39.77 ⁴⁸	38.986 ¹⁷⁷	72.02 ¹²	16.600 ¹²⁵	21.54 ³⁹	25.645 ¹⁵⁰	54.46 ²⁰
20	28.59 ⁶⁰	40.25 ¹¹	38.809 ¹⁹¹	71.90 ⁴⁸	16.475 ¹³⁸	21.15 ⁵⁵	25.495 ¹⁶³	54.26 ⁴⁸
30	27.99 ⁶⁰	40.14 ⁶⁹	38.618 ¹⁹⁵	71.42 ⁸¹	16.337 ¹⁴²	20.60 ⁶⁹	25.332 ¹⁶⁹	53.78 ⁷⁵
Feb. 9	27.39 ⁵⁶	39.45 ¹²³	38.423 ¹⁸⁸	70.61 ¹¹⁰	16.195 ¹³⁹	19.91 ⁷⁹	25.163 ¹⁶⁵	53.03 ⁹⁷
19	26.83 ⁵¹	38.22 ¹⁷¹	38.235 ¹⁷⁰	69.51 ¹³⁶	16.056 ¹²⁷	19.12 ⁸⁶	24.998 ¹⁵¹	52.06 ¹¹⁴
März 1	26.32 ⁴⁴	36.51 ²¹¹	38.065 ¹⁴²	68.15 ¹⁵³	15.929 ¹⁰⁶	18.26 ⁸⁸	24.847 ¹²⁷	50.92 ¹²⁷
11	25.88 ³³	34.40 ²⁴³	37.923 ¹⁰³	66.62 ¹⁶⁴	15.823 ⁷⁷	17.38 ⁸⁴	24.720 ⁹³	49.65 ¹³⁴
21	25.55 ²⁰	31.97 ²⁶³	37.820 ⁵⁵	64.98 ¹⁶⁷	15.746 ³⁹	16.54 ⁷⁷	24.627 ⁵⁰	48.31 ¹³²
31	25.35 ⁸	29.34 ²⁷²	37.765 ⁰	63.31 ¹⁶¹	15.707 ⁵	15.77 ⁶³	24.577 ²	46.99 ¹²⁴
Apr. 10	25.27 ⁶	26.62 ²⁷⁰	37.765 ⁵⁹	61.70 ¹⁴⁹	15.712 ⁵¹	15.14 ⁴⁵	24.575 ⁵¹	45.75 ¹¹⁰
20	25.33 ²⁰	23.92 ²⁵⁷	37.824 ¹¹⁹	60.21 ¹²⁹	15.763 ¹⁰¹	14.69 ²²	24.626 ¹⁰⁶	44.65 ⁹⁰
30	25.53 ³³	21.35 ²³⁵	37.943 ¹⁷⁸	58.92 ¹⁰³	15.864 ¹⁴⁹	14.47 ²	24.732 ¹⁶⁰	43.75 ⁶⁵
Mai 10	25.86 ⁴⁶	19.00 ²⁰⁴	38.121 ²³³	57.89 ⁷²	16.013 ¹⁹⁶	14.49 ²⁹	24.892 ²¹²	43.10 ³⁶
20	26.32 ⁵⁷	16.96 ¹⁶⁶	38.354 ²⁸⁴	57.17 ³⁸	16.209 ²³⁸	14.78 ⁵⁶	25.104 ²⁵⁹	42.74 ⁵
30	26.89 ⁶⁶	15.30 ¹²³	38.638 ³²⁷	56.79 ²	16.447 ²⁷⁵	15.34 ⁸⁴	25.363 ²⁹⁸	42.69 ²⁸
Juni 9	27.55 ⁷³	14.07 ⁷⁶	38.965 ³⁶¹	56.77 ³⁴	16.722 ³⁰⁴	16.18 ¹⁰⁹	25.661 ³³¹	42.97 ⁶⁰
19	28.28 ⁷⁹	13.31 ²⁷	39.326 ³⁸⁶	57.11 ⁷⁰	17.026 ³²⁶	17.27 ¹³¹	25.992 ³⁵⁵	43.57 ⁹¹
29	29.07 ⁸²	13.04 ²³	39.712 ⁴⁰⁰	57.81 ¹⁰⁴	17.352 ³³⁹	18.58 ¹⁵¹	26.347 ³⁶⁹	44.48 ¹¹⁹
Juli 9	29.89 ⁸⁴	13.27 ⁷³	40.112 ⁴⁰⁶	58.85 ¹³⁶	17.691 ³⁴⁴	20.09 ¹⁶⁷	26.716 ³⁷⁶	45.67 ¹⁴⁵
19	30.73 ⁸⁴	14.00 ¹²¹	40.518 ⁴⁰²	60.21 ¹⁶⁴	18.035 ³⁴²	21.76 ¹⁷⁸	27.092 ³⁷³	47.12 ¹⁶⁷
29	31.57 ⁸¹	15.21 ¹⁶⁶	40.920 ³⁹⁰	61.85 ¹⁸⁸	18.377 ³³²	23.54 ¹⁸⁵	27.465 ³⁶³	48.79 ¹⁸⁴
Aug. 8	32.38 ⁷⁷	16.87 ²⁰⁷	41.310 ³⁷¹	63.73 ²⁰⁸	18.709 ³¹⁶	25.39 ¹⁸⁶	27.828 ³⁴⁵	50.63 ¹⁹⁷
18	33.15 ⁷²	18.94 ²⁴⁴	41.681 ³⁴⁵	65.81 ²²²	19.025 ²⁹⁴	27.25 ¹⁸⁵	28.173 ³²³	52.60 ²⁰⁷
28	33.87 ⁶⁶	21.38 ²⁷⁷	42.026 ³¹⁴	68.03 ²³³	19.319 ²⁶⁹	29.10 ¹⁷⁹	28.496 ²⁹⁵	54.67 ²¹¹
Sept. 7	34.53 ⁵⁸	24.15 ³⁰³	42.340 ²⁷⁹	70.36 ²³⁹	19.588 ²⁴⁰	30.89 ¹⁶⁹	28.791 ²⁶⁴	56.78 ²¹¹
17	35.11 ⁴⁹	27.18 ³²⁴	42.619 ²⁴³	72.75 ²⁴¹	19.828 ²⁰⁸	32.58 ¹⁵⁸	29.055 ²³¹	58.89 ²⁰⁸
27	35.60 ⁴¹	30.42 ³³⁹	42.862 ²⁰⁴	75.16 ²³⁸	20.036 ¹⁷⁷	34.16 ¹⁴⁴	29.286 ¹⁹⁶	60.97 ²⁰¹
Okt. 7	36.01 ³¹	33.81 ³⁴⁶	43.066 ¹⁶⁵	77.54 ²³⁰	20.213 ¹⁴⁵	35.60 ¹²⁸	29.482 ¹⁶¹	62.98 ¹⁹¹
17	36.32 ²¹	37.27 ³⁴⁸	43.231 ¹²⁵	79.84 ²²⁰	20.358 ¹¹³	36.88 ¹¹²	29.643 ¹²⁵	64.89 ¹⁷⁹
26	36.53 ¹⁰	40.75 ³⁴¹	43.356 ⁸⁵	82.04 ²⁰⁶	20.471 ⁸¹	38.00 ⁹⁵	29.768 ⁸⁹	66.68 ¹⁶⁴
Nov. 5	36.63 ¹	44.16 ³²⁶	43.441 ⁴⁵	84.10 ¹⁸⁸	20.552 ⁵⁰	38.95 ⁷⁸	29.857 ⁵⁴	68.32 ¹⁴⁶
15	36.62 ¹²	47.42 ³⁰⁴	43.486 ⁵	85.98 ¹⁶⁶	20.602 ¹⁸	39.73 ⁶⁰	29.911 ¹⁸	69.78 ¹²⁷
25	36.50 ²¹	50.46 ²⁷⁴	43.491 ³³	87.64 ¹⁴¹	20.620 ¹¹	40.33 ⁴²	29.929 ¹⁷	71.05 ¹⁰⁴
Dez. 5	36.29 ³²	53.20 ²³⁶	43.458 ⁷¹	89.05 ¹¹¹	20.609 ⁴⁰	40.75 ²⁴	29.912 ⁵⁰	72.09 ⁸⁰
15	35.97 ⁴¹	55.56 ¹⁹⁰	43.387 ¹⁰⁵	90.16 ⁷⁹	20.569 ⁶⁷	40.99 ⁶	29.862 ⁸³	72.89 ⁵³
25	35.56 ⁴⁹	57.46 ¹³⁹	43.282 ¹³⁷	90.95 ⁴⁶	20.502 ⁹²	41.05 ¹²	29.779 ¹¹¹	73.42 ²⁵
35	35.07	58.85	43.145	91.41	20.410	40.93	29.668	73.67
Mittl. Ort sec δ, tg δ	30.12 3.252	18.83 +3.094	39.286 1.346	57.84 +0.900	16.701 1.087	13.23 +0.427	25.828 1.216	42.36 +0.692
a, a'	+5.1	+17.5	+3.7	+17.4	+3.4	+17.2	+3.6	+17.1
b, b'	+0.18	-0.49	+0.05	-0.50	+0.02	-0.51	+0.04	-0.52

Tag	76) 55 Cassiopeiae		78) Lac. μ Fornacis		80) 67 Ceti		85) ξ^2 Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	2 ^h 8 ^m	+66° 12'	2 ^h 9 ^m	—31° 2'	2 ^h 13 ^m	—6° 43'	2 ^h 24 ^m	+8° 9'
Jan. 0	62.31 ³⁶	27.13 ¹⁰³	52.837 ¹⁴³	57.26 ⁹⁸	32.724 ⁹⁸	82.74 ⁸⁰	29.480 ⁸⁹	10.25 ⁵²
10	61.95 ⁴¹	28.16 ⁴⁹	52.694 ¹⁵⁹	58.24 ⁵⁹	32.626 ¹¹⁵	83.54 ⁶⁴	29.391 ¹¹⁰	9.73 ⁵²
20	61.54 ⁴³	28.65 ⁶	52.535 ¹⁶⁹	58.83 ¹⁸	32.511 ¹²⁷	84.18 ⁴⁶	29.281 ¹²⁴	9.21 ⁵¹
30	61.11 ⁴³	28.59 ⁶⁰	52.366 ¹⁷¹	59.01 ²³	32.384 ¹³²	84.64 ²⁸	29.157 ¹³²	8.70 ⁴⁷
Feb. 9	60.68 ⁴²	27.99 ¹¹¹	52.195 ¹⁶⁸	58.78 ⁶³	32.252 ¹³¹	84.92 ⁸	29.025 ¹³⁴	8.23 ⁴³
19	60.26 ³⁹	26.88 ¹⁵⁷	52.027 ¹⁵⁵	58.15 ¹⁰³	32.121 ¹²²	85.00 ¹⁴	28.891 ¹²⁶	7.80 ³⁵
März 1	59.87 ³³	25.31 ¹⁹⁵	51.872 ¹³⁴	57.12 ¹⁴⁰	31.999 ¹⁰⁵	84.86 ³⁶	28.765 ¹¹⁰	7.45 ²⁴
11	59.54 ²⁵	23.36 ²²⁴	51.738 ¹⁰⁷	55.72 ¹⁷⁵	31.894 ⁸¹	84.50 ⁶⁰	28.655 ⁸⁷	7.21 ¹²
21	59.29 ¹⁷	21.12 ²⁴⁴	51.613 ⁷¹	53.97 ²⁰⁷	31.813 ⁴⁹	83.90 ⁸⁴	28.568 ⁵⁵	7.09 ⁴
31	59.12 ⁷	18.68 ²⁵³	51.560 ³⁰	51.90 ²³⁶	31.764 ¹¹	83.06 ¹⁰⁸	28.513 ¹⁶	7.13 ²³
Apr. 10	59.05 ⁴	16.15 ²⁵¹	51.530 ¹⁶	49.54 ²⁵⁹	31.753 ³¹	81.98 ¹³¹	28.497 ²⁶	7.36 ⁴²
20	59.09 ¹⁴	13.64 ²⁴⁰	51.546 ⁶⁵	46.95 ²⁷⁸	31.784 ⁷⁵	80.67 ¹⁵³	28.523 ⁷¹	7.78 ⁶⁴
30	59.23 ²⁵	11.24 ²¹⁹	51.611 ¹¹⁴	44.17 ²⁹²	31.859 ¹¹⁹	79.14 ¹⁷⁴	28.594 ¹¹⁸	8.42 ⁸⁶
Mai 10	59.48 ³⁵	9.05 ¹⁹⁰	51.725 ¹⁶²	41.25 ²⁹⁹	31.978 ¹⁶³	77.40 ¹⁹¹	28.712 ¹⁶²	9.28 ¹⁰⁸
20	59.83 ⁴⁴	7.15 ¹⁵⁵	51.887 ²⁰⁷	38.26 ³⁰¹	32.141 ²⁰⁴	75.49 ²⁰⁵	28.874 ²⁰⁴	10.36 ¹²⁸
30	60.27 ⁵¹	5.60 ¹¹⁴	52.094 ²⁴⁸	35.25 ²⁹⁵	32.345 ²³⁹	73.44 ²¹⁴	29.078 ²⁴⁰	11.64 ¹⁴⁶
Juni 9	60.78 ⁵⁷	4.46 ⁶⁹	52.342 ²⁸³	32.30 ²⁸²	32.584 ²⁷⁰	71.30 ²¹⁹	29.318 ²⁷¹	13.10 ¹⁶¹
19	61.35 ⁶²	3.77 ²³	52.625 ³¹¹	29.48 ²⁶³	32.854 ²⁹³	69.11 ²¹⁸	29.589 ²⁹⁵	14.71 ¹⁷²
29	61.97 ⁶⁵	3.54 ²⁴	52.936 ³³⁰	26.85 ²³⁷	33.147 ³⁰⁸	66.93 ²¹²	29.884 ³¹¹	16.43 ¹⁷⁹
Juli 9	62.62 ⁶⁶	3.78 ⁷¹	53.266 ³⁴¹	24.48 ²⁰⁴	33.455 ³¹⁷	64.81 ¹⁹⁹	30.195 ³²⁰	18.22 ¹⁸¹
19	63.28 ⁶⁷	4.49 ¹¹⁵	53.607 ³⁴⁴	22.44 ¹⁶⁷	33.772 ³¹⁷	62.82 ¹⁸²	30.515 ³²²	20.03 ¹⁷⁸
29	63.95 ⁶⁵	5.64 ¹⁵⁷	53.951 ³³⁹	20.77 ¹²³	34.089 ³¹⁰	61.00 ¹⁶⁰	30.837 ³¹⁶	21.81 ¹⁶⁹
Aug. 8	64.60 ⁶²	7.21 ¹⁹⁶	54.290 ³²⁴	19.54 ⁷⁸	34.399 ²⁹⁷	59.40 ¹³⁴	31.153 ³⁰⁴	23.50 ¹⁵⁸
18	65.22 ⁵⁹	9.17 ²³¹	54.614 ³⁰⁴	18.76 ³⁰	34.696 ²⁷⁹	58.06 ¹⁰⁴	31.457 ²⁸⁷	25.08 ¹⁴²
28	65.81 ⁵⁴	11.48 ²⁶⁰	54.918 ²⁷⁷	18.46 ¹⁸	34.975 ²⁵⁵	57.02 ⁷³	31.744 ²⁶⁵	26.50 ¹²³
Sept. 7	66.35 ⁴⁸	14.08 ²⁸⁵	55.195 ²⁴⁶	18.64 ⁶⁴	35.230 ²²⁹	56.29 ⁴⁰	32.009 ²⁴¹	27.73 ¹⁰²
17	66.83 ⁴²	16.93 ³⁰⁴	55.441 ²¹⁰	19.28 ¹⁰⁶	35.459 ²⁰⁰	55.89 ⁸	32.250 ²¹³	28.75 ⁸⁰
27	67.25 ³⁶	19.97 ³¹⁷	55.651 ¹⁷³	20.34 ¹⁴⁵	35.659 ¹⁶⁹	55.81 ²¹	32.463 ¹⁸⁴	29.55 ⁵⁸
Okt. 7	67.61 ²⁸	23.14 ³²⁴	55.824 ¹³⁴	21.79 ¹⁷⁶	35.828 ¹³⁸	56.02 ⁴⁹	32.647 ¹⁵⁵	30.13 ³⁶
17	67.89 ²⁰	26.38 ³²⁵	55.958 ⁹⁴	23.55 ¹⁹⁹	35.966 ¹⁰⁷	56.51 ⁷²	32.802 ¹²⁵	30.49 ¹⁶
26*)	68.09 ¹³	29.63 ³¹⁹	56.052 ⁵⁶	25.54 ²¹⁴	36.073 ⁷⁶	57.23 ⁸⁹	32.927 ⁹⁵	30.65 ²
Nov. 5	68.22 ⁵	32.82 ³⁰⁶	56.108 ¹⁸	27.68 ²¹⁹	36.149 ⁴⁶	58.12 ¹⁰¹	33.022 ⁶⁶	30.63 ¹⁶
15	68.27 ⁴	35.88 ²⁸⁶	56.126 ¹⁷	29.87 ²¹⁵	36.195 ¹⁷	59.13 ¹⁰⁹	33.088 ³⁶	30.47 ²⁸
25	68.23 ¹²	38.74 ²⁵⁷	56.109 ⁵⁰	32.02 ²⁰²	36.212 ¹¹	60.22 ¹¹¹	33.124 ⁷	30.19 ³⁸
Dez. 5	68.11 ¹⁹	41.31 ²²³	56.059 ⁸¹	34.04 ¹⁸²	36.201 ³⁸	61.33 ¹⁰⁷	33.131 ²¹	29.81 ⁴⁵
15	67.92 ²⁶	43.54 ¹⁸¹	55.978 ¹⁰⁸	35.86 ¹⁵⁴	36.163 ⁶³	62.40 ¹⁰¹	33.110 ⁴⁹	29.36 ⁵⁰
25	67.66 ³³	45.35 ¹³³	55.870 ¹³²	37.40 ¹²²	36.100 ⁸⁵	63.41 ⁸⁹	33.061 ⁷⁴	28.86 ⁵²
35	67.33	46.68	55.738	38.62	36.015	64.30	32.987	28.34
Mittl. Ort	62.49	8.02	52.202	49.03	32.413	81.91	29.245	5.95
sec δ , tg δ	2 478	+2.268	1.167	—0.602	1.007	—0.118	1.010	+0.143
a, a'	+4.7	+16.9	+2.6	+16.9	+3.0	+16.7	+3.2	+16.2
b, b'	+0.13	—0.53	—0.03	—0.54	—0.01	—0.55	+0.01	—0.59

*) Bei Stern 85) lies Okt. 27

Tag	87) 36 H. Cassiopeiae		90) μ Hydri		89) ν Arietis		91) δ Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	2 ^h 31 ^m	+72° 31'	2 ^h 33 ^m	−79° 24'	2 ^h 34 ^m	+21° 39'	2 ^h 35 ^m	+0° 1'
Jan. 0	26.03	25.09	11.45	52.52	53.806	59.13	56.974	56.30
10	25.54	26.56	10.31	53.35	53.714	58.99	56.887	55.58
20	24.98	27.48	9.11	53.58	53.598	58.72	56.780	54.95
30	24.38	27.83	7.88	53.20	53.463	58.31	56.656	54.43
Feb. 9	23.76	27.59	6.67	52.23	53.318	57.79	56.522	54.03
19	23.15	26.80	5.49	50.70	53.169	57.18	56.385	53.77
März 1	22.58	25.48	4.38	48.65	53.027	56.50	56.253	53.67
11	22.07	23.71	3.37	46.14	52.901	55.80	56.136	53.73
21	21.65	21.56	2.48	43.23	52.799	55.11	56.040	53.98
31	21.35	19.12	1.74	40.00	52.732	54.48	55.974	54.43
Apr. 10	21.17	16.51	1.17	36.51	52.705	53.95	55.945	55.10
20	21.13	13.84	0.77	32.84	52.724	53.58	55.957	55.98
30	21.24	11.20	0.56	29.06	52.791	53.39	56.013	57.08
Mai 10	21.48	8.71	0.54	25.27	52.908	53.41	56.114	58.39
20	21.86	6.44	0.72	21.54	53.073	53.67	56.261	59.90
30	22.36	4.48	1.09	17.96	53.281	54.18	56.449	61.57
Juni 9	22.97	2.90	1.64	14.60	53.530	54.93	56.674	63.38
19	23.67	1.73	2.36	11.54	53.813	55.90	56.932	65.29
29	24.44	1.02	3.23	8.87	54.121	57.08	57.215	67.25
Juli 9	25.27	0.78	4.23	6.65	54.448	58.44	57.516	69.21
19	26.12	1.02	5.32	4.93	54.785	59.93	57.828	71.12
29	26.99	1.73	6.47	3.77	55.125	61.53	58.144	72.92
Aug. 8	27.86	2.90	7.66	3.20	55.460	63.18	58.457	74.57
18	28.70	4.50	8.84	3.23	55.785	64.84	58.760	76.02
28	29.51	6.50	9.97	3.87	56.093	66.48	59.047	77.24
Sept. 7	30.26	8.86	11.02	5.10	56.380	68.06	59.315	78.19
17	30.94	11.53	11.96	6.88	56.642	69.55	59.559	78.87
27	31.55	14.46	12.75	9.14	56.878	70.93	59.778	79.27
Okt. 7	32.08	17.60	13.36	11.80	57.085	72.17	59.968	79.39
17	32.52	20.88	13.78	14.77	57.262	73.26	60.129	79.27
27	32.85	24.24	13.98	17.92	57.408	74.21	60.261	78.92
Nov. 5	33.07	27.61	13.95	21.13	57.523	75.01	60.363	78.38
15	33.19	30.91	13.71	24.29	57.607	75.66	60.436	77.71
25	33.19	34.06	13.26	27.25	57.659	76.16	60.478	76.93
Dez. 5	33.07	36.99	12.61	29.91	57.678	76.53	60.491	76.10
15	32.84	39.61	11.78	32.16	57.665	76.75	60.475	75.25
25	32.50	41.84	10.80	33.94	57.620	76.83	60.430	74.42
35	32.07	43.61	9.71	35.15	57.546	76.76	60.359	73.64
Mittl. Ort	25.77	5.19	5.39	38.16	53.599	50.44	56.612	54.19
sec δ , tg δ	3.329	+3.175	5.442	−5.349	1.076	+0.397	1.000	+0.001
a, a'	+5.7	+15.8	−1.4	+15.7	+3.4	+15.6	+3.1	+15.6
b, b'	+0.17	−0.61	−0.28	−0.62	+0.02	−0.63	0.00	−0.63

Tag	93) δ Persei			97) π Ceti			98) μ Ceti			100) α Arietis		
	AR.	Dekl.		AR.	Dekl.		AR.	Dekl.		AR.	Dekl.	
1931	2 ^h 39 ^m	+48° 56'		2 ^h 40 ^m	—14° 8'		2 ^h 41 ^m	+9° 49'		2 ^h 45 ^m	+26° 58'	
Jan. 0	28.710 ₁₅₉	31.85 ₇₈		50.797 ₉₇	62.12 ₁₀₃		12.838 ₈₂	30.80 ₄₇		55.257 ₉₂	48.27 ₇	
10	28.551 ₁₉₅	32.63 ₃₉		50.700 ₁₂₀	63.15 ₇₉		12.756 ₁₀₅	30.33 ₄₈		55.165 ₁₂₀	48.34 ₁₁	
20	28.356 ₂₂₁	33.02 ₀		50.580 ₁₃₅	63.94 ₅₃		12.651 ₁₂₄	29.85 ₄₈		55.045 ₁₄₁	48.23 ₂₉	
30	28.135 ₂₃₆	33.02 ₄₀		50.445 ₁₄₆	64.47 ₂₇		12.527 ₁₃₅	29.37 ₄₇		54.904 ₁₅₅	47.94 ₄₇	
Feb. 9	27.899 ₂₃₉	32.62 ₇₈		50.299 ₁₄₉	64.74 ₁		12.392 ₁₃₉	28.90 ₄₃		54.749 ₁₆₁	47.47 ₆₂	
19	27.660 ₂₂₇	31.84 ₁₁₁		50.150 ₁₄₃	64.73 ₃₀		12.253 ₁₃₄	28.47 ₃₇		54.588 ₁₅₅	46.85 ₇₄	
März 1	27.433 ₂₀₃	30.73 ₁₄₀		50.007 ₁₃₁	64.43 ₅₈		12.119 ₁₂₁	28.10 ₂₉		54.433 ₁₄₀	46.11 ₈₂	
11	27.230 ₁₆₅	29.33 ₁₆₂		49.876 ₁₀₈	63.85 ₈₇		11.998 ₉₉	27.81 ₁₈		54.293 ₁₁₅	45.29 ₈₆	
21	27.065 ₁₁₇	27.71 ₁₇₆		49.768 ₇₉	62.98 ₁₁₄		11.899 ₆₈	27.63 ₄		54.178 ₈₁	44.43 ₈₅	
31	26.948 ₅₉	25.95 ₁₈₂		49.689 ₄₃	61.84 ₁₄₁		11.831 ₃₁	27.59 ₁₂		54.097 ₃₉	43.58 ₇₉	
Apr. 10	26.889 ₆	24.13 ₁₈₀		49.646 ₂	60.43 ₁₆₆		11.800 ₁₁	27.71 ₃₁		54.058 ₈	42.79 ₆₈	
20	26.895 ₇₃	22.33 ₁₇₀		49.644 ₄₃	58.77 ₁₈₈		11.811 ₅₆	28.02 ₅₁		54.066 ₅₈	42.11 ₅₂	
30	26.968 ₁₄₂	20.63 ₁₅₂		49.687 ₈₈	56.89 ₂₀₉		11.867 ₁₀₃	28.53 ₇₂		54.124 ₁₁₀	41.59 ₃₂	
Mai 10	27.110 ₂₀₇	19.11 ₁₂₈		49.775 ₁₃₄	54.80 ₂₂₄		11.970 ₁₄₉	29.25 ₉₃		54.234 ₁₆₀	41.27 ₉	
20	27.317 ₂₆₉	17.83 ₉₉		49.909 ₁₇₇	52.56 ₂₃₆		12.119 ₁₉₁	30.18 ₁₁₄		54.394 ₂₀₇	41.18 ₁₆	
30	27.586 ₃₂₂	16.84 ₆₇		50.086 ₂₁₆	50.20 ₂₄₂		12.310 ₂₃₀	31.32 ₁₃₂		54.601 ₂₄₉	41.34 ₄₁	
Juni 9	27.908 ₃₆₈	16.17 ₃₂		50.302 ₂₄₉	47.78 ₂₄₃		12.540 ₂₆₂	32.64 ₁₄₈		54.850 ₂₈₆	41.75 ₆₆	
19	28.276 ₄₀₃	15.85 ₅		50.551 ₂₇₈	45.35 ₂₃₈		12.802 ₂₈₉	34.12 ₁₆₀		55.136 ₃₁₂	42.41 ₈₉	
29	28.679 ₄₂₉	15.90 ₄₁		50.829 ₂₉₈	42.97 ₂₂₇		13.091 ₃₀₇	35.72 ₁₆₈		55.449 ₃₃₄	43.30 ₁₁₀	
Juli 9	29.108 ₄₄₅	16.31 ₇₆		51.127 ₃₁₁	40.70 ₂₀₉		13.398 ₃₁₉	37.40 ₁₇₂		55.783 ₃₄₇	44.40 ₁₂₉	
19	29.553 ₄₅₀	17.07 ₁₀₉		51.438 ₃₁₇	38.61 ₁₈₇		13.717 ₃₂₂	39.12 ₁₇₀		56.130 ₃₅₂	45.69 ₁₄₃	
29	30.003 ₄₄₇	18.16 ₁₄₀		51.755 ₃₁₅	36.74 ₁₅₈		14.039 ₃₂₀	40.82 ₁₆₅		56.482 ₃₄₉	47.12 ₁₅₅	
Aug. 8	30.450 ₄₃₄	19.56 ₁₆₆		52.070 ₃₀₇	35.16 ₁₂₅		14.359 ₃₁₀	42.47 ₁₅₄		56.831 ₃₃₉	48.67 ₁₆₁	
18	30.884 ₄₁₄	21.22 ₁₈₉		52.377 ₂₉₂	33.91 ₉₀		14.669 ₂₉₆	44.01 ₁₄₁		57.170 ₃₂₄	50.28 ₁₆₄	
28	31.298 ₃₈₈	23.11 ₂₀₈		52.669 ₂₇₃	33.01 ₅₂		14.965 ₂₇₆	45.42 ₁₂₃		57.494 ₃₀₅	51.92 ₁₆₄	
Sept. 7	31.686 ₃₅₈	25.19 ₂₂₄		52.942 ₂₄₉	32.49 ₁₃		15.241 ₂₅₃	46.65 ₁₀₄		57.799 ₂₈₁	53.56 ₁₅₉	
17	32.044 ₃₂₂	27.43 ₂₃₄		53.191 ₂₂₂	32.36 ₂₅		15.494 ₂₂₈	47.69 ₈₃		58.080 ₂₅₄	55.15 ₁₅₃	
27	32.366 ₂₈₄	29.77 ₂₄₀		53.413 ₁₉₃	32.61 ₅₉		15.722 ₂₀₁	48.52 ₆₂		58.334 ₂₂₆	56.68 ₁₄₄	
Okt. 7	32.650 ₂₄₄	32.17 ₂₄₃		53.606 ₁₆₂	33.20 ₉₁		15.923 ₁₇₃	49.14 ₄₁		58.560 ₁₉₆	58.12 ₁₃₄	
17	32.894 ₂₀₀	34.60 ₂₄₁		53.768 ₁₃₁	34.11 ₁₁₆		16.096 ₁₄₄	49.55 ₂₂		58.756 ₁₆₅	59.46 ₁₂₁	
27	33.094 ₁₅₄	37.01 ₂₃₄		53.899 ₉₉	35.27 ₁₃₇		16.240 ₁₁₄	49.77 ₅		58.921 ₁₃₂	60.67 ₁₀₉	
Nov. 5	33.248 ₁₀₈	39.35 ₂₂₃		53.998 ₆₇	36.64 ₁₄₉		16.354 ₈₄	49.82 ₉		59.053 ₉₉	61.76 ₉₆	
15	33.356 ₆₀	41.58 ₂₀₉		54.065 ₃₆	38.13 ₁₅₅		16.438 ₅₃	49.73 ₂₂		59.152 ₆₆	62.72 ₈₁	
25	33.416 ₁₀	43.67 ₁₈₈		54.101 ₄	39.68 ₁₅₅		16.491 ₂₃	49.51 ₃₁		59.218 ₃₁	63.53 ₆₇	
Dez. 5	33.426 ₄₀	45.55 ₁₆₃		54.105 ₂₆	41.23 ₁₄₇		16.514 ₇	49.20 ₃₉		59.249 ₅	64.20 ₅₁	
15	33.386 ₈₈	47.18 ₁₃₃		54.079 ₅₅	42.70 ₁₃₅		16.507 ₃₇	48.81 ₄₄		59.244 ₃₉	64.71 ₃₄	
25	33.298 ₁₃₂	48.51 ₁₀₀		54.024 ₈₃	44.05 ₁₁₆		16.470 ₆₅	48.37 ₄₇		59.205 ₇₃	65.05 ₁₇	
35	33.166	49.51		53.941	45.21		16.405	47.90		59.132	65.22	
Mittl. Ort	28.539	15.99		50.261	60.17		12.525	25.54		55.007	37.91	
sec δ , tg δ	1.522	+1.148		1.031	—0.252		1.015	+0.173		1.122	+0.509	
a, a'	+4.1	+15.4		+2.9	+15.3		+3.2	+15.3		+3.5	+15.0	
b, b'	+0.06	—0.64		—0.01	—0.65		+0.01	—0.65		+0.03	—0.66	

Obere Kulmination Greenwich

41*

Tag	101) β Fornacis		102) τ^2 Eridani		103) τ Persei		104) η Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	2 ^h 46 ^m	—32° 41'	2 ^h 47 ^m	—21° 16'	2 ^h 49 ^m	+52° 28'	2 ^h 53 ^m	—9° 9'
Jan. 0	12.999 ¹³⁸	48.46 ¹³⁰	55.156 ¹⁰⁷	79.71 ¹¹⁸	21.429 ¹⁷¹	69.65 ⁹⁹	3.849 ⁸⁶	78.79 ⁹⁹
10	12.861 ¹⁶²	49.76 ⁹⁰	55.049 ¹³⁰	80.89 ⁸⁸	21.258 ²¹³	70.64 ⁵⁹	3.763 ¹¹⁰	79.78 ⁸⁰
20	12.699 ¹⁷⁸	50.66 ⁴⁹	54.919 ¹⁴⁸	81.77 ⁵⁶	21.045 ²⁴³	71.23 ¹⁷	3.653 ¹²⁹	80.58 ⁵⁹
30	12.521 ¹⁸⁹	51.15 ⁵	54.771 ¹⁵⁹	82.33 ²³	20.802 ²⁶¹	71.40 ²⁶	3.524 ¹⁴²	81.17 ³⁷
Feb. 9	12.332 ¹⁹¹	51.20 ³⁸	54.612 ¹⁶²	82.56 ¹²	20.541 ²⁶⁶	71.14 ⁶⁷	3.382 ¹⁴⁷	81.54 ¹⁴
19	12.141 ¹⁸⁵	50.82 ⁸¹	54.450 ¹⁵⁸	82.44 ⁴⁷	20.275 ²⁵⁷	70.47 ¹⁰⁵	3.235 ¹⁴⁴	81.68 ¹¹
März 1	11.956 ¹⁶⁹	50.01 ¹²¹	54.292 ¹⁴⁵	81.97 ⁸¹	20.018 ²³³	69.42 ¹³⁷	3.091 ¹³³	81.57 ³⁶
11	11.787 ¹⁴⁶	48.80 ¹⁵⁹	54.147 ¹²⁴	81.16 ¹¹³	19.785 ¹⁹⁴	68.05 ¹⁶³	2.958 ¹¹³	81.21 ⁶¹
21	11.641 ¹¹³	47.21 ¹⁹⁴	54.023 ⁹⁴	80.03 ¹⁴⁴	19.591 ¹⁴²	66.42 ¹⁸³	2.845 ⁸⁵	80.60 ⁸⁶
31	11.528 ⁷⁵	45.27 ²²⁷	53.929 ⁵⁸	78.59 ¹⁷⁴	19.449 ⁸²	64.59 ¹⁹²	2.760 ⁵⁰	79.74 ¹¹¹
Apr. 10	11.453 ²⁹	43.00 ²⁵³	53.871 ¹⁶	76.85 ²⁰⁰	19.367 ¹⁴	62.67 ¹⁹³	2.710 ⁹	78.63 ¹³⁶
20	11.424 ¹⁹	40.47 ²⁷⁶	53.855 ²⁹	74.85 ²²³	19.353 ⁵⁹	60.74 ¹⁸⁶	2.701 ³⁴	77.27 ¹⁵⁸
30	11.443 ⁷⁰	37.71 ²⁹³	53.884 ⁷⁷	72.62 ²⁴²	19.412 ¹³²	58.88 ¹⁷²	2.735 ⁷⁹	75.69 ¹⁷⁸
Mai 10	11.513 ¹²⁰	34.78 ³⁰⁵	53.961 ¹²³	70.20 ²⁵⁷	19.544 ²⁰⁴	57.16 ¹⁵⁰	2.814 ¹²⁵	73.91 ¹⁹⁶
20	11.633 ¹⁶⁹	31.73 ³⁰⁹	54.084 ¹⁶⁸	67.63 ²⁶⁷	19.748 ²⁷⁰	55.66 ¹²²	2.939 ¹⁶⁸	71.95 ²¹⁰
30	11.802 ²¹³	28.64 ³⁰⁷	54.252 ²⁰⁹	64.96 ²⁶⁹	20.018 ³²⁹	54.44 ⁹¹	3.107 ²⁰⁷	69.85 ²²⁰
Juni 9	12.015 ²⁵⁴	25.57 ²⁹⁷	54.461 ²⁴⁵	62.27 ²⁶⁶	20.347 ³⁷⁹	53.53 ⁵⁶	3.314 ²⁴²	67.65 ²²⁴
19	12.269 ²⁸⁷	22.60 ²⁸⁰	54.706 ²⁷⁵	59.61 ²⁵⁷	20.726 ⁴²⁰	52.97 ¹⁹	3.556 ²⁷⁰	65.41 ²²³
29	12.556 ³¹²	19.80 ²⁵⁵	54.981 ²⁹⁸	57.04 ²⁴¹	21.146 ⁴⁵⁰	52.78 ¹⁸	3.826 ²⁹¹	63.18 ²¹⁵
Juli 9	12.868 ³³¹	17.25 ²²⁵	55.279 ³¹⁴	54.63 ²¹⁸	21.596 ⁴⁶⁹	52.96 ⁵⁴	4.117 ³⁰⁶	61.03 ²⁰⁴
19	13.199 ³⁴⁰	15.00 ¹⁸⁸	55.593 ³²¹	52.45 ¹⁸⁹	22.065 ⁴⁷⁸	53.50 ⁹⁰	4.423 ³¹³	58.99 ¹⁸⁵
29	13.539 ³⁴³	13.12 ¹⁴⁵	55.914 ³²¹	50.56 ¹⁵⁵	22.543 ⁴⁷⁷	54.40 ¹²³	4.736 ³¹²	57.14 ¹⁶¹
Aug. 8	13.882 ³³⁵	11.67 ⁹⁸	56.235 ³¹³	49.01 ¹¹⁸	23.020 ⁴⁶⁶	55.63 ¹⁵³	5.048 ³⁰⁶	55.53 ¹³⁴
18	14.217 ³²²	10.69 ⁴⁹	56.548 ³⁰²	47.83 ⁷⁵	23.486 ⁴⁴⁸	57.16 ¹⁷⁹	5.354 ²⁹⁴	54.19 ¹⁰²
28	14.539 ³⁰¹	10.20 ²	56.850 ²⁸²	47.08 ³²	23.934 ⁴²³	58.95 ²⁰²	5.648 ²⁷⁶	53.17 ⁶⁸
Sept. 7	14.840 ²⁷⁵	10.22 ⁵¹	57.132 ²⁵⁹	46.76 ¹²	24.357 ³⁹¹	60.97 ²²⁰	5.924 ²⁵⁵	52.49 ³²
17	15.115 ²⁴⁴	10.73 ⁹⁹	57.391 ²³¹	46.88 ⁵³	24.748 ³⁵⁶	63.17 ²³⁵	6.179 ²³⁰	52.17 ²
27	15.359 ²¹⁰	11.72 ¹⁴²	57.622 ²⁰²	47.41 ⁹²	25.104 ³¹⁶	65.52 ²⁴⁵	6.409 ²⁰³	52.19 ³⁶
Okt. 7	15.569 ¹⁷³	13.14 ¹⁷⁸	57.824 ¹⁷⁰	48.33 ¹²⁷	25.420 ²⁷⁴	67.97 ²⁵¹	6.612 ¹⁷⁴	52.55 ⁶⁵
17	15.742 ¹³⁵	14.92 ²⁰⁷	57.994 ¹³⁷	49.60 ¹⁵⁴	25.694 ²²⁷	70.48 ²⁵²	6.786 ¹⁴⁵	53.20 ⁹¹
27	15.877 ⁹⁵	16.99 ²²⁷	58.131 ¹⁰³	51.14 ¹⁷⁶	25.921 ¹⁷⁹	73.00 ²⁴⁹	6.931 ¹¹⁴	54.11 ¹¹²
Nov. 5	15.972 ⁵⁶	19.26 ²³⁸	58.234 ⁶⁸	52.90 ¹⁸⁸	26.100 ¹²⁷	75.49 ²⁴¹	7.045 ⁸³	55.23 ¹²⁶
15	16.028 ¹⁷	21.64 ²³⁹	58.302 ³⁴	54.78 ¹⁹²	26.227 ⁷⁴	77.90 ²²⁷	7.128 ⁵²	56.49 ¹³⁴
25	16.045 ²¹	24.03 ²²⁹	58.336 ¹	56.70 ¹⁸⁸	26.301 ¹⁹	80.17 ²⁰⁹	7.180 ²¹	57.83 ¹³⁶
Dez. 5	16.024 ⁵⁷	26.32 ²¹²	58.337 ³¹	58.58 ¹⁷⁸	26.320 ³⁶	82.26 ¹⁸⁵	7.201 ¹¹	59.19 ¹³²
15	15.967 ⁹⁰	28.44 ¹⁸⁶	58.306 ⁶³	60.36 ¹⁶⁰	26.284 ⁹⁰	84.11 ¹⁵⁵	7.190 ⁴¹	60.51 ¹²³
25	15.877 ¹²³	30.30 ¹⁵⁴	58.243 ⁹¹	61.96 ¹³⁷	26.194 ¹⁴⁰	85.66 ¹²⁰	7.149 ⁷⁰	61.74 ¹¹⁰
35	15.754	31.84	58.152	63.33	26.054	86.86	7.079	62.84
Mittl. Ort	12.127	41.84	54.486	76.09	21.156	53.11	3.312	78.79
sec δ , tg δ	1.188	—0.642	1.073	—0.390	1.642	+1.302	1.013	—0.162
a, a'	+2.5	+15.0	+2.7	+14.9	+4.2	+14.8	+2.9	+14.6
b, b'	—0.03	—0.66	—0.02	—0.67	+0.06	—0.67	—0.01	—0.69

Tag	106) δ Eridani		105) 47 H. Cephei		107) α Ceti		108) γ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	2 ^h 55 ^m	—40° 34'	2 ^h 56 ^m	+79° 8'	2 ^h 58 ^m	+3° 49'	2 ^h 59 ^m	+53° 14'
Jan. 0	39.689 ¹⁶⁶	57.11 ¹⁴⁵	51.34 ⁷⁷	75.39 ¹⁹⁵	40.633 ⁷⁵	16.00 ⁶⁵	47.525 ¹⁶⁶	32.00 ¹¹⁰
10	39.523 ¹⁹³	58.56 ¹⁰⁰	50.57 ⁹⁰	77.34 ¹⁴⁰	40.558 ¹⁰¹	15.35 ⁶⁰	47.359 ²¹⁰	33.10 ⁷²
20	39.330 ²¹²	59.56 ⁵²	49.67 ⁹⁸	78.74 ⁸²	40.457 ¹²¹	14.75 ⁵²	47.149 ²⁴⁴	33.82 ²⁹
30	39.118 ²²⁴	60.08 ³	48.69 ¹⁰⁴	79.56 ²¹	40.336 ¹³⁶	14.23 ⁴³	46.905 ²⁶⁷	34.11 ¹⁴
Feb. 9	38.894 ²²⁸	60.11 ⁴⁵	47.65 ¹⁰⁴	79.77 ³⁹	40.200 ¹⁴³	13.80 ³³	46.638 ²⁷⁴	33.97 ⁵⁶
19	38.666 ²²²	59.66 ⁹²	46.61 ¹⁰⁰	79.38 ⁹⁸	40.057 ¹⁴¹	13.47 ²²	46.364 ²⁶⁸	33.41 ⁹⁴
März 1	38.444 ²⁰⁶	58.74 ¹³⁷	45.61 ⁹¹	78.40 ¹⁵⁰	39.916 ¹³⁰	13.25 ⁸	46.096 ²⁴⁶	32.47 ¹²⁹
11	38.238 ¹⁸¹	57.37 ¹⁷⁹	44.70 ⁷⁸	76.90 ¹⁹⁷	39.786 ¹¹¹	13.17 ⁷	45.850 ²⁰⁹	31.18 ¹⁵⁷
21	38.057 ¹⁴⁷	55.58 ²¹⁷	43.92 ⁶²	74.93 ²³⁴	39.675 ⁸³	13.24 ²⁴	45.641 ¹⁵⁸	29.61 ¹⁷⁷
31	37.910 ¹⁰⁵	53.41 ²⁵¹	43.30 ⁴³	72.59 ²⁶⁰	39.592 ⁴⁸	13.48 ⁴³	45.483 ⁹⁸	27.84 ¹⁹⁰
Apr. 10	37.805 ⁵⁸	50.90 ²⁷⁹	42.87 ²²	69.99 ²⁷⁶	39.544 ⁸	13.91 ⁶³	45.385 ³⁰	25.94 ¹⁹⁴
20	37.747 ⁵	48.11 ³⁰³	42.65 ⁰	67.23 ²⁸¹	39.536 ³⁶	14.54 ⁸⁴	45.355 ⁴³	24.00 ¹⁹⁰
30	37.742 ⁴⁹	45.08 ³¹⁹	42.65 ²²	64.42 ²⁷⁶	39.572 ⁸²	15.38 ¹⁰³	45.398 ¹¹⁸	22.10 ¹⁷⁷
Mai 10	37.791 ¹⁰⁴	41.89 ³³⁰	42.87 ⁴⁴	61.66 ²⁶⁰	39.654 ¹²⁸	16.41 ¹²⁴	45.516 ¹⁹¹	20.33 ¹⁵⁸
20	37.895 ¹⁵⁸	38.59 ³³²	43.31 ⁶⁴	59.06 ²³⁶	39.782 ¹⁷⁰	17.65 ¹⁴¹	45.707 ²⁶⁰	18.75 ¹³³
30	38.053 ²⁰⁸	35.27 ³²⁷	43.95 ⁸³	56.70 ²⁰⁴	39.952 ²¹⁰	19.06 ¹⁵⁷	45.967 ³²¹	17.42 ¹⁰²
Juni 9	38.261 ²⁵³	32.00 ³¹⁵	44.78 ⁹⁸	54.66 ¹⁶⁶	40.162 ²⁴⁵	20.63 ¹⁶⁸	46.288 ³⁷⁴	16.40 ⁶⁹
19	38.514 ²⁹¹	28.85 ²⁹⁵	45.76 ¹¹¹	53.00 ¹²³	40.407 ²⁷³	22.31 ¹⁷⁷	46.662 ⁴¹⁸	15.71 ³³
29	38.805 ³²²	25.90 ²⁶⁷	46.87 ¹²²	51.77 ⁷⁷	40.680 ²⁹³	24.08 ¹⁸⁰	47.080 ⁴⁵⁰	15.38 ⁴
Juli 9	39.127 ³⁴⁵	23.23 ²³¹	48.09 ¹²⁹	51.00 ²⁹	40.973 ³⁰⁸	25.88 ¹⁷⁹	47.530 ⁴⁷³	15.42 ⁴⁰
19	39.472 ³⁵⁹	20.92 ¹⁹⁰	49.38 ¹³³	50.71 ¹⁹	41.281 ³¹⁵	27.67 ¹⁷²	48.003 ⁴⁸⁴	15.82 ⁷⁵
29	39.831 ³⁶⁴	19.02 ¹⁴³	50.71 ¹³⁵	50.90 ⁶⁸	41.596 ³¹⁴	29.39 ¹⁶⁰	48.487 ⁴⁸⁶	16.57 ¹⁰⁹
Aug. 8	40.195 ³⁶⁰	17.59 ⁹²	52.06 ¹³⁴	51.58 ¹¹⁵	41.910 ³⁰⁸	30.99 ¹⁴⁵	48.973 ⁴⁷⁸	17.66 ¹³⁹
18	40.555 ³⁴⁸	16.67 ³⁸	53.40 ¹³⁰	52.73 ¹⁵⁹	42.218 ²⁹⁷	32.44 ¹²⁶	49.451 ⁴⁶¹	19.05 ¹⁶⁶
28	40.903 ³²⁸	16.29 ¹⁷	54.70 ¹²⁴	54.32 ²⁰¹	42.515 ²⁸⁰	33.70 ¹⁰²	49.912 ⁴³⁸	20.71 ¹⁹¹
Sept. 7	41.231 ³⁰¹	16.46 ⁷¹	55.94 ¹¹⁶	56.33 ²³⁸	42.795 ²⁶⁰	34.72 ⁷⁸	50.350 ⁴¹⁰	22.62 ²¹⁰
17	41.532 ²⁶⁸	17.17 ¹²²	57.10 ¹⁰⁵	58.71 ²⁷²	43.055 ²³⁶	35.50 ⁵³	50.760 ³⁷⁵	24.72 ²²⁷
27	41.800 ²³²	18.39 ¹⁶⁹	58.15 ⁹³	61.43 ³⁰⁰	43.291 ²¹¹	36.03 ²⁷	51.135 ³³⁶	26.99 ²³⁸
Okt. 7	42.032 ¹⁹¹	20.08 ²⁰⁷	59.08 ⁷⁹	64.43 ³²²	43.502 ¹⁸⁴	36.30 ⁴	51.471 ²⁹⁴	29.37 ²⁴⁶
17	42.223 ¹⁴⁷	22.15 ²³⁸	59.87 ⁶³	67.65 ³³⁷	43.686 ¹⁵⁶	36.34 ¹⁸	51.765 ²⁴⁸	31.83 ²⁵⁰
27	42.370 ¹⁰²	24.53 ²⁶⁰	60.50 ⁴⁶	71.02 ³⁴⁷	43.842 ¹²⁷	36.16 ³⁶	52.013 ²⁰⁰	34.33 ²⁴⁹
Nov. 5 ^{*)}	42.472 ⁵⁷	27.13 ²⁷⁰	60.96 ²⁸	74.49 ³⁴⁷	43.969 ⁹⁸	35.80 ⁵¹	52.213 ¹⁴⁶	36.82 ²⁴²
15	42.529 ¹²	29.83 ²⁶⁹	61.24 ⁸	77.96 ³⁴¹	44.067 ⁶⁷	35.29 ⁶¹	52.359 ⁹²	39.24 ²³¹
25	42.541 ³¹	32.52 ²⁵⁹	61.32 ¹¹	81.37 ³²⁶	44.134 ³⁵	34.68 ⁶⁹	52.451 ³⁶	41.55 ²¹⁴
Dez. 5	42.510 ⁷³	35.11 ²³⁸	61.21 ³¹	84.63 ³⁰⁰	44.169 ⁴	33.99 ⁷²	52.487 ²²	43.69 ¹⁹²
15	42.437 ¹¹³	37.49 ²⁰⁸	60.90 ⁴⁹	87.63 ²⁶⁶	44.173 ²⁷	33.27 ⁷¹	52.465 ⁷⁸	45.61 ¹⁶⁵
25	42.324 ¹⁴⁷	39.57 ¹⁷²	60.41 ⁶⁷	90.29 ²²³	44.146 ⁵⁷	32.56 ⁷⁰	52.387 ¹³³	47.26 ¹³¹
35	42.177	41.29	59.74	92.52	44.089	31.86	52.254	48.57
Mittl. Ort	38.564	49.32	49.98	55.20	40.188	12.06	47.147	15.40
sec δ , tg δ	1.317	—0.856	5.312	+5.217	1.002	+0.067	1.671	+1.339
a, a'	+2.3	+14.4	+7.9	+14.4	+3.1	+14.3	+4.3	+14.2
b, b'	—0.04	—0.69	+0.25	—0.70	0.00	—0.70	+0.06	—0.71

*) Bei Stern 105), 107) und 108) lies Nov. 6

Tag	109) ρ Persei		110) μ Horologii		111) β Persei		114) δ Arietis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	3 ^h 0 ^m	+38° 34'	3 ^h 1 ^m	—59° 59'	3 ^h 3 ^m	+40° 41'	3 ^h 7 ^m	+19° 28'
Jan. 0	45.164 ¹⁰⁵	40.47 ⁵⁶	61.13 ³³	88.54 ¹⁵¹	40.627 ¹⁰⁸	41.90 ⁶⁷	41.151 ⁷³	9.48 ¹²
10	45.059 ¹³⁹	41.03 ²⁸	60.80 ³⁶	90.05 ⁹⁷	40.519 ¹⁴⁵	42.57 ³⁷	41.078 ¹⁰²	9.36 ²²
20	44.920 ¹⁶⁷	41.31 ⁰	60.44 ³⁸	91.02 ³⁹	40.374 ¹⁷⁴	42.94 ⁶	40.976 ¹²⁶	9.14 ³⁰
30	44.753 ¹⁸⁶	41.31 ²⁹	60.06 ⁴⁰	91.41 ¹⁸	40.200 ¹⁹⁴	43.00 ²⁴	40.850 ¹⁴³	8.84 ³⁹
Feb. 9	44.567 ¹⁹³	41.02 ⁵⁷	59.66 ⁴¹	91.23 ⁷⁵	40.006 ²⁰²	42.76 ⁵⁴	40.707 ¹⁵³	8.45 ⁴⁶
19	44.374 ¹⁹¹	40.45 ⁸²	59.25 ³⁹	90.48 ¹²⁹	39.804 ²⁰⁰	42.22 ⁸¹	40.554 ¹⁵¹	7.99 ⁵⁰
März 1	44.183 ¹⁷⁶	39.63 ¹⁰²	58.86 ³⁶	89.19 ¹⁷⁹	39.604 ¹⁸⁴	41.41 ¹⁰⁵	40.403 ¹⁴²	7.49 ⁵²
11	44.007 ¹⁴⁸	38.61 ¹¹⁸	58.50 ³³	87.40 ²²⁵	39.420 ¹⁵⁸	40.36 ¹²²	40.261 ¹²²	6.97 ⁵¹
21	43.859 ¹¹¹	37.43 ¹²⁷	58.17 ²⁷	85.15 ²⁶⁶	39.262 ¹¹⁹	39.14 ¹³³	40.139 ⁹³	6.46 ⁴⁷
31	43.748 ⁶⁶	36.16 ¹³¹	57.90 ²²	82.49 ³⁰¹	39.143 ⁷²	37.81 ¹³⁹	40.046 ⁵⁵	5.99 ³⁸
Apr. 10	43.682 ¹²	34.85 ¹²⁷	57.68 ¹⁵	79.48 ³²⁹	39.071 ¹⁷	36.42 ¹³⁶	39.991 ¹³	5.61 ²⁵
20	43.670 ⁴⁵	33.58 ¹¹⁷	57.53 ⁸	76.19 ³⁵⁰	39.054 ⁴⁰	35.06 ¹²⁸	39.978 ³⁴	5.36 ⁹
30	43.715 ¹⁰³	32.41 ¹⁰¹	57.45 ⁰	72.69 ³⁶⁴	39.094 ¹⁰¹	33.78 ¹¹⁴	40.012 ⁸³	5.27 ⁸
Mai 10	43.818 ¹⁶⁰	31.40 ⁸¹	57.45 ⁷	69.05 ³⁷⁰	39.195 ¹⁶⁰	32.64 ⁹³	40.095 ¹³²	5.35 ²⁹
20	43.978 ²¹⁴	30.59 ⁵⁷	57.52 ¹⁶	65.35 ³⁶⁶	39.355 ²¹⁶	31.71 ⁶⁹	40.227 ¹⁷⁷	5.64 ⁵⁰
30	44.192 ²⁶³	30.02 ²⁹	57.68 ²³	61.69 ³⁵⁶	39.571 ²⁶⁶	31.02 ⁴²	40.404 ²²⁰	6.14 ⁷¹
Juni 9	44.455 ³⁰⁵	29.73 ¹	57.91 ²⁹	58.13 ³³⁶	39.837 ³⁰⁹	30.60 ¹³	40.624 ²⁵⁶	6.85 ⁹⁰
19	44.760 ³³⁹	29.72 ²⁸	58.20 ³⁶	54.77 ³⁰⁸	40.146 ³⁴⁵	30.47 ¹⁶	40.880 ²⁸⁶	7.75 ¹⁰⁸
29	45.099 ³⁶⁵	30.00 ⁵⁷	58.56 ⁴¹	51.69 ²⁷³	40.491 ³⁷²	30.63 ⁴⁷	41.166 ³⁰⁹	8.83 ¹²³
Juli 9	45.464 ³⁸¹	30.57 ⁸³	58.97 ⁴⁵	48.96 ²²⁹	40.863 ³⁹⁰	31.10 ⁷⁴	41.475 ³²⁵	10.06 ¹³⁵
19	45.845 ³⁹⁰	31.40 ¹⁰⁸	59.42 ⁴⁸	46.67 ¹⁷⁹	41.253 ³⁹⁸	31.84 ¹⁰⁰	41.800 ³³²	11.41 ¹⁴³
29	46.235 ³⁹⁰	32.48 ¹²⁹	59.90 ⁴⁹	44.88 ¹²⁵	41.651 ⁴⁰⁰	32.84 ¹²³	42.132 ³³³	12.84 ¹⁴⁶
Aug. 8	46.625 ³⁸³	33.77 ¹⁴⁷	60.39 ⁴⁹	43.63 ⁶⁵	42.051 ³⁹³	34.07 ¹⁴³	42.465 ³²⁸	14.30 ¹⁴⁶
18	47.008 ³⁶⁹	35.24 ¹⁶¹	60.88 ⁴⁸	42.98 ⁵	42.444 ³⁸⁰	35.50 ¹⁶⁰	42.793 ³¹⁷	15.76 ¹⁴²
28	47.377 ³⁵⁰	36.85 ¹⁷³	61.36 ⁴⁶	42.93 ⁵⁶	42.824 ³⁶¹	37.10 ¹⁷²	43.110 ³⁰¹	17.18 ¹³⁴
Sept. 7	47.727 ³²⁶	38.58 ¹⁷⁹	61.82 ⁴²	43.49 ¹¹⁶	43.185 ³³⁸	38.82 ¹⁸²	43.411 ²⁸²	18.52 ¹²⁵
17	48.053 ³⁰⁰	40.37 ¹⁸⁴	62.24 ³⁷	44.65 ¹⁷¹	43.523 ³¹⁰	40.64 ¹⁸⁹	43.693 ²⁵⁹	19.77 ¹¹²
27	48.353 ²⁶⁹	42.21 ¹⁸⁵	62.61 ³²	46.36 ²¹⁹	43.833 ²⁷⁹	42.53 ¹⁹¹	43.952 ²³⁴	20.89 ⁹⁹
Okt. 7	48.622 ²³⁷	44.06 ¹⁸³	62.93 ²⁵	48.55 ²⁶¹	44.112 ²⁴⁷	44.44 ¹⁹¹	44.186 ²⁰⁸	21.88 ⁸⁴
17	48.859 ²⁰³	45.89 ¹⁷⁸	63.18 ¹⁸	51.16 ²⁹²	44.359 ²¹¹	46.35 ¹⁸⁸	44.394 ¹⁷⁹	22.72 ⁷⁰
27	49.062 ¹⁶⁷	47.67 ¹⁷¹	63.36 ¹¹	54.08 ³¹¹	44.570 ¹⁷⁴	48.23 ¹⁸²	44.573 ¹⁴⁹	23.42 ⁵⁷
Nov. 6	49.229 ¹²⁸	49.38 ¹⁶²	63.47 ³	57.19 ³¹⁸	44.744 ¹³⁴	50.05 ¹⁷³	44.722 ¹¹⁸	23.99 ⁴⁴
15	49.357 ⁸⁸	51.00 ¹⁵⁰	63.50 ⁴	60.37 ³¹³	44.878 ⁹³	51.78 ¹⁶²	44.840 ⁸⁶	24.43 ³²
25	49.445 ⁴⁶	52.50 ¹³⁴	63.46 ¹²	63.50 ²⁹⁶	44.971 ⁴⁹	53.40 ¹⁴⁷	44.926 ⁵²	24.75 ²²
Dez. 5	49.491 ³	53.84 ¹¹⁶	63.34 ¹⁸	66.46 ²⁶⁸	45.020 ⁵	54.87 ¹²⁸	44.978 ¹⁸	24.97 ¹¹
15	49.494 ³⁹	55.00 ⁹⁵	63.16 ²⁴	69.14 ²³⁰	45.025 ⁴⁰	56.15 ¹⁰⁷	44.996 ¹⁸	25.08 ¹
25	49.455 ⁷⁹	55.95 ⁷⁰	62.92 ³⁰	71.44 ¹⁸³	44.985 ⁸²	57.22 ⁸¹	44.978 ⁵²	25.09 ⁸
35	49.376	56.65	62.62	73.27	44.903	58.03	44.926	25.01
Mittl. Ort	44.835	27.03	58.99	77.99	40.275	27.98	40.748	0.94
sec δ , tg δ	1.279	+0.798	2.000	—1.732	1.319	+0.860	1.061	+0.353
a, a'	+3.8	+14.1	+1.4	+14.1	+3.9	+13.9	+3.4	+13.7
b, b'	+0.04	—0.71	—0.08	—0.71	+0.04	—0.72	+0.02	—0.73

Tag	117) 12 Eridani		115) 48 H. Cephei		120) α Persei		121) σ Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	3 ^h 9 ^m	—29° 14'	3 ^h 11 ^m	+77° 28'	3 ^h 19 ^m	+49° 37'	3 ^h 21 ^m	+8° 47'
Jan. 0	9.215 ¹¹⁷	94.19 ¹⁴⁴	31.19 ⁶¹	82.04 ²⁰⁴	23.675 ¹²⁷	17.07 ¹¹¹	6.356 ⁶²	19.58 ⁵⁰
10	9.098 ¹⁴⁴	95.63 ¹⁰⁸	30.58 ⁷³	84.08 ¹⁵⁴	23.548 ¹⁷²	18.18 ⁷⁷	6.294 ⁹²	19.08 ⁴⁹
20	8.954 ¹⁶⁶	96.71 ⁶⁹	29.85 ⁸²	85.62 ⁹⁷	23.376 ²⁰⁹	18.95 ⁴¹	6.202 ¹¹⁷	18.59 ⁴⁶
30	8.788 ¹⁸¹	97.40 ²⁹	29.03 ⁸⁸	86.59 ³⁸	23.167 ²³⁶	19.36 ²	6.085 ¹³⁶	18.13 ⁴¹
Feb. 9	8.607 ¹⁸⁸	97.69 ¹³	28.15 ⁸⁹	86.97 ²²	22.931 ²⁵⁰	19.38 ³⁷	5.949 ¹⁴⁷	17.72 ³⁶
19	8.419 ¹⁸⁷	97.56 ⁵⁴	27.26 ⁸⁷	86.75 ⁸⁰	22.681 ²⁵⁰	19.01 ⁷³	5.802 ¹⁴⁹	17.36 ³⁰
März 1	8.232 ¹⁷⁵	97.02 ⁹⁴	26.39 ⁸¹	85.95 ¹³³	22.431 ²³⁵	18.28 ¹⁰⁵	5.653 ¹⁴²	17.06 ²²
11	8.057 ¹⁵⁶	96.08 ¹³²	25.58 ⁷¹	84.62 ¹⁸⁰	22.196 ²⁰⁶	17.23 ¹³³	5.511 ¹²⁵	16.84 ¹¹
21	7.901 ¹²⁷	94.76 ¹⁶⁷	24.87 ⁵⁸	82.82 ²²⁰	21.990 ¹⁶³	15.90 ¹⁵⁴	5.386 ¹⁰⁰	16.73 ¹
31	7.774 ⁹¹	93.09 ²⁰¹	24.29 ⁴¹	80.62 ²⁴⁸	21.827 ¹¹⁰	14.36 ¹⁶⁷	5.286 ⁶⁶	16.74 ¹⁶
Apr. 10	7.683 ⁴⁹	91.08 ²²⁹	23.88 ²⁴	78.14 ²⁶⁷	21.717 ⁴⁹	12.69 ¹⁷³	5.220 ²⁶	16.90 ³³
20	7.634 ²	88.79 ²⁵⁴	23.64 ⁵	75.47 ²⁷⁶	21.668 ¹⁷	10.96 ¹⁷²	5.194 ¹⁷	17.23 ⁵⁰
30	7.632 ⁴⁶	86.25 ²⁷⁵	23.59 ¹⁵	72.71 ²⁷³	21.685 ⁸⁷	9.24 ¹⁶²	5.211 ⁶⁴	17.73 ⁶⁹
Mai 10	7.678 ⁹⁷	83.50 ²⁸⁹	23.74 ³³	69.98 ²⁶⁰	21.772 ¹⁵⁶	7.62 ¹⁴⁶	5.275 ¹¹⁰	18.42 ⁸⁹
20	7.775 ¹⁴⁴	80.61 ²⁹⁷	24.07 ⁵²	67.38 ²⁴⁰	21.928 ²²¹	6.16 ¹²⁴	5.385 ¹⁵⁴	19.31 ¹⁰⁷
30	7.919 ¹⁸⁹	77.64 ²⁹⁹	24.59 ⁶⁸	64.98 ²¹¹	22.149 ²⁸⁰	4.92 ⁹⁸	5.539 ¹⁹⁶	20.38 ¹²⁴
Juni 9	8.108 ²³¹	74.65 ²⁹⁴	25.27 ⁸³	62.87 ¹⁷⁶	22.429 ³³³	3.94 ⁶⁹	5.735 ²³²	21.62 ¹³⁷
19	8.339 ²⁶⁵	71.71 ²⁸¹	26.10 ⁹⁵	61.11 ¹³⁶	22.762 ³⁷⁷	3.25 ³⁷	5.967 ²⁶³	22.99 ¹⁴⁹
29	8.604 ²⁹³	68.90 ²⁶²	27.05 ¹⁰⁵	59.75 ⁹²	23.139 ⁴¹¹	2.88 ⁴	6.230 ²⁸⁷	24.48 ¹⁵⁶
Juli 9	8.897 ³¹⁴	66.28 ²³⁵	28.10 ¹¹²	58.83 ⁴⁶	23.550 ⁴³⁶	2.84 ²⁸	6.517 ³⁰⁴	26.04 ¹⁵⁸
19	9.211 ³²⁷	63.93 ²⁰²	29.22 ¹¹⁷	58.37 ²	23.986 ⁴⁵¹	3.12 ⁶⁰	6.821 ³¹⁴	27.62 ¹⁵⁷
29	9.538 ³³¹	61.91 ¹⁶²	30.39 ¹²⁰	58.39 ⁴⁹	24.437 ⁴⁵⁶	3.72 ⁹¹	7.135 ³¹⁷	29.19 ¹⁵⁰
Aug. 8	9.869 ³³⁰	60.29 ¹¹⁹	31.59 ¹¹⁹	58.88 ⁹⁴	24.893 ⁴⁵²	4.63 ¹¹⁸	7.452 ³¹⁴	30.69 ¹⁴⁰
18	10.199 ³²⁰	59.10 ⁷¹	32.78 ¹¹⁷	59.82 ¹³⁹	25.345 ⁴⁴²	5.81 ¹⁴³	7.766 ³⁰⁶	32.09 ¹²⁵
28	10.519 ³⁰⁴	58.39 ²²	33.95 ¹¹²	61.21 ¹⁸⁰	25.787 ⁴²⁴	7.24 ¹⁶⁴	8.072 ²⁹²	33.34 ¹⁰⁸
Sept. 7	10.823 ²⁸³	58.17 ²⁷	35.07 ¹⁰⁶	63.01 ²¹⁸	26.211 ⁴⁰²	8.88 ¹⁸²	8.364 ²⁷⁵	34.42 ⁸⁸
17	11.106 ²⁵⁶	58.44 ⁷⁵	36.13 ⁹⁷	65.19 ²⁵²	26.613 ³⁷²	10.70 ¹⁹⁸	8.639 ²⁵⁵	35.30 ⁶⁶
27	11.362 ²²⁷	59.19 ¹¹⁹	37.10 ⁸⁸	67.71 ²⁸²	26.985 ³⁴⁹	12.68 ²⁰⁹	8.894 ²³²	35.96 ⁴⁵
Okt. 7	11.589 ¹⁹⁴	60.38 ¹⁵⁸	37.98 ⁷⁶	70.53 ³⁰⁵	27.325 ³⁰³	14.77 ²¹⁶	9.126 ²⁰⁸	36.41 ²⁴
17	11.783 ¹⁵⁹	61.96 ¹⁹⁰	38.74 ⁶²	73.58 ³²³	27.628 ²⁶³	16.93 ²²¹	9.334 ¹⁸¹	36.65 ⁴
27	11.942 ¹²³	63.86 ²¹⁴	39.36 ⁴⁸	76.81 ³³⁵	27.891 ²²⁰	19.14 ²²¹	9.515 ¹⁵³	36.69 ¹²
Nov. 6	12.065 ⁸⁵	66.00 ²²⁸	39.84 ³³	80.16 ³³⁹	28.111 ¹⁷³	21.35 ²¹⁸	9.668 ¹²³	36.57 ²⁷
15	12.150 ⁴⁷	68.28 ²³³	40.17 ¹⁶	83.55 ³³⁵	28.284 ¹²²	23.53 ²¹⁰	9.791 ⁹²	36.30 ³⁷
25	12.197 ⁹	70.61 ²²⁹	40.33 ¹	86.90 ³²²	28.406 ⁷⁰	25.63 ¹⁹⁷	9.883 ⁶⁰	35.93 ⁴⁵
Dez. 5	12.206 ²⁹	72.90 ²¹⁶	40.32 ¹⁹	90.12 ³⁰¹	28.476 ¹⁵	27.60 ¹⁷⁹	9.943 ²⁶	35.48 ⁵⁰
15	12.177 ⁶⁴	75.06 ¹⁹⁴	40.13 ³⁵	93.13 ²⁶⁹	28.491 ⁴⁰	29.39 ¹⁵⁷	9.969 ⁸	34.98 ⁵²
25	12.113 ⁹⁹	77.00 ¹⁶⁶	39.78 ⁵¹	95.82 ²³¹	28.451 ⁹³	30.96 ¹²⁹	9.961 ⁴²	34.46 ⁵³
35	12.014	78.66	39.27	98.13	28.358	32.25	9.919	33.93
Mittl. Ort sec δ , tg δ	8.304 1.146	89.71 —0.560	29.64 4.614	62.30 +4.505	23.151 1.543	1.41 +1.176	5.836 1.012	13.71 +0.155
a, a'	+2.5	+13.6	+7.5	+13.4	+4.3	+12.9	+3.2	+12.8
b, b'	—0.03	—0.73	+0.20	—0.74	+0.05	—0.76	+0.01	—0.77

Tag	122) 2 H. Camelop.		125) γ Tauri		127) ϵ Eridani ¹⁾		131) δ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	3 ^h 23 ^m	+59° 42'	3 ^h 27 ^m	+12° 42'	3 ^h 29 ^m	-9° 41'	3 ^h 37 ^m	+47° 34'
Jan. 0	28.612 ¹⁸³	23.39 ¹⁵⁴	4.145 ⁵⁹	11.70 ³⁵	41.406 ⁷³	26.12 ¹¹³	60.837 ⁹⁸	21.46 ¹¹⁵
10	28.429 ²⁴³	24.93 ¹¹³	4.086 ⁹⁰	11.35 ³⁷	41.333 ¹⁰²	27.25 ⁹³	60.739 ¹⁴⁷	22.61 ⁸⁵
20	28.186 ²⁹⁰	26.06 ⁶⁹	3.996 ¹¹⁶	10.98 ³⁸	41.231 ¹²⁷	28.18 ⁷¹	60.592 ¹⁸⁸	23.46 ⁵²
30	27.896 ³²⁴	26.75 ²³	3.880 ¹³⁶	10.60 ³⁸	41.104 ¹⁴⁶	28.89 ⁴⁸	60.404 ²¹⁸	23.98 ¹⁶
Feb. 9	27.572 ³⁴¹	26.98 ²⁵	3.744 ¹⁴⁹	10.22 ³⁷	40.958 ¹⁵⁷	29.37 ²³	60.186 ²³⁷	24.14 ¹⁹
19	27.231 ³⁴⁰	26.73 ⁷⁰	3.595 ¹⁵²	9.85 ³⁴	40.801 ¹⁵⁹	29.60 ³	59.949 ²⁴²	23.95 ⁵⁴
März 1	26.891 ³²¹	26.03 ¹¹¹	3.443 ¹⁴⁶	9.51 ³⁰	40.642 ¹⁵³	29.57 ²⁸	59.707 ²³²	23.41 ⁸⁶
11	26.570 ²⁸⁴	24.92 ¹⁴⁸	3.297 ¹³⁰	9.21 ²⁴	40.489 ¹³⁷	29.29 ⁵⁵	59.475 ²⁰⁹	22.55 ¹¹³
21	26.286 ²³⁰	23.44 ¹⁷⁸	3.167 ¹⁰⁴	8.97 ¹⁵	40.352 ¹¹³	28.74 ⁸⁰	59.266 ¹⁷³	21.42 ¹³⁵
31	26.056 ¹⁶²	21.66 ¹⁹⁸	3.063 ⁷¹	8.82 ³	40.239 ⁸¹	27.94 ¹⁰⁶	59.093 ¹²⁵	20.07 ¹⁵⁰
Apr. 10	25.894 ⁸⁵	19.68 ²¹¹	2.992 ³¹	8.79 ¹²	40.158 ⁴³	26.88 ¹³⁰	58.968 ⁶⁷	18.57 ¹⁵⁸
20	25.809 ⁸	17.57 ²¹⁴	2.961 ¹⁴	8.91 ²⁷	40.115 ¹	25.58 ¹⁵³	58.901 ⁵	16.99 ¹⁵⁹
30	25.807 ⁸⁶	15.43 ²⁰⁹	2.975 ⁶⁰	9.18 ⁴⁶	40.114 ⁴⁵	24.05 ¹⁷⁴	58.896 ⁶¹	15.40 ¹⁵³
Mai 10	25.893 ¹⁷²	13.34 ¹⁹⁶	3.035 ¹⁰⁸	9.64 ⁶⁴	40.159 ⁹¹	22.31 ¹⁹²	58.957 ¹²⁷	13.87 ¹⁴⁰
20	26.065 ²⁵⁵	11.38 ¹⁷⁶	3.143 ¹⁵³	10.28 ⁸²	40.250 ¹³⁵	20.39 ²⁰⁶	59.084 ¹⁹²	12.47 ¹²²
30	26.320 ³³¹	9.62 ¹⁴⁹	3.296 ¹⁹⁵	11.10 ¹⁰⁰	40.385 ¹⁷⁶	18.33 ²¹⁶	59.276 ²⁵¹	11.25 ⁹⁹
Juni 9	26.651 ³⁹⁷	8.13 ¹¹⁹	3.491 ²³²	12.10 ¹¹⁶	40.561 ²¹⁴	16.17 ²²²	59.527 ³⁰⁴	10.26 ⁷³
19	27.048 ⁴⁵⁴	6.94 ⁸⁴	3.723 ²⁶³	13.26 ¹²⁹	40.775 ²⁴⁶	13.95 ²²¹	59.831 ³⁴⁹	9.53 ⁴⁵
29	27.502 ⁴⁹⁹	6.10 ⁴⁷	3.986 ²⁸⁸	14.55 ¹³⁸	41.021 ²⁷²	11.74 ²¹⁶	60.180 ³⁸⁵	9.08 ¹⁵
Juli 9	28.001 ⁵³²	5.63 ⁹	4.274 ³⁰⁷	15.93 ¹⁴⁵	41.293 ²⁹⁰	9.58 ²⁰⁴	60.565 ⁴¹³	8.93 ¹⁵
19	28.533 ⁵⁵³	5.54 ²⁸	4.581 ³¹⁷	17.38 ¹⁴⁶	41.583 ³⁰²	7.54 ¹⁸⁶	60.978 ⁴³⁰	9.08 ⁴⁴
29	29.086 ⁵⁶³	5.82 ⁶⁶	4.898 ³²¹	18.84 ¹⁴³	41.885 ³⁰⁷	5.68 ¹⁶³	61.408 ⁴⁴⁰	9.52 ⁷²
Aug. 8	29.649 ⁵⁶¹	6.48 ¹⁰¹	5.219 ³¹⁹	20.27 ¹³⁷	42.192 ³⁰⁷	4.05 ¹³⁵	61.848 ⁴⁴⁰	10.24 ⁹⁸
18	30.210 ⁵⁵¹	7.49 ¹³⁴	5.538 ³¹¹	21.64 ¹²⁶	42.499 ²⁹⁹	2.70 ¹⁰³	62.288 ⁴³³	11.22 ¹²⁰
28	30.761 ⁵³²	8.83 ¹⁶⁴	5.849 ²⁹⁹	22.90 ¹¹³	42.798 ²⁸⁷	1.67 ⁶⁹	62.721 ⁴²²	12.42 ¹⁴¹
Sept. 7	31.293 ⁵⁰⁴	10.47 ¹⁹¹	6.148 ²⁸²	24.03 ⁹⁶	43.085 ²⁷⁰	0.98 ³²	63.143 ⁴⁰¹	13.83 ¹⁵⁹
17	31.797 ⁴⁶⁸	12.38 ²¹⁴	6.430 ²⁶⁸	24.99 ⁷⁹	43.355 ²⁵⁰	0.66 ⁵	63.544 ³⁷⁸	15.42 ¹⁷³
27	32.265 ⁴²⁹	14.52 ²³³	6.693 ²⁴¹	25.78 ⁶⁰	43.605 ²²⁷	0.71 ⁴⁰	63.922 ³⁴⁹	17.15 ¹⁸⁴
Okt. 7	32.694 ³⁸²	16.85 ²⁴⁹	6.934 ²¹⁶	26.38 ⁴¹	43.832 ²⁰¹	1.11 ⁷²	64.271 ³¹⁷	18.99 ¹⁹³
17	33.076 ³³⁰	19.34 ²⁶⁰	7.150 ¹⁹¹	26.79 ²⁵	44.033 ¹⁷³	1.83 ¹⁰⁰	64.588 ²⁸¹	20.92 ¹⁹⁸
27	33.406 ²⁷³	21.94 ²⁶⁵	7.341 ¹⁶³	27.04 ⁹	44.206 ¹⁴⁵	2.83 ¹²²	64.869 ²⁴¹	22.90 ²⁰⁰
Nov. 6	33.679 ²¹¹	24.59 ²⁶⁶	7.504 ¹³³	27.13 ⁴	44.351 ¹¹³	4.05 ¹³⁹	65.110 ¹⁹⁷	24.90 ²⁰⁰
15*)	33.890 ¹⁴⁴	27.25 ²⁶⁰	7.637 ¹⁰¹	27.09 ¹⁴	44.464 ⁸¹	5.44 ¹⁴⁹	65.307 ¹⁴⁹	26.90 ¹⁹⁴
25	34.034 ⁷⁵	29.85 ²⁵⁰	7.738 ⁶⁸	26.95 ²²	44.545 ⁴⁸	6.93 ¹⁵¹	65.456 ⁹⁹	28.84 ¹⁸⁵
Dez. 5	34.109 ¹	32.35 ²³¹	7.806 ³³	26.73 ²⁹	44.593 ¹⁴	8.44 ¹⁴⁸	65.555 ⁴⁴	30.69 ¹⁷²
15	34.110 ⁷¹	34.66 ²⁰⁶	7.839 ²	26.44 ³³	44.607 ²⁰	9.92 ¹⁴⁰	65.599 ¹⁰	32.41 ¹⁵³
25	34.039 ¹⁴⁰	36.72 ¹⁷⁴	7.837 ³⁷	26.11 ³⁶	44.587 ⁵³	11.32 ¹²⁶	65.589 ⁶⁵	33.94 ¹²⁹
35	33.899	38.46	7.800	25.75	44.534	12.58	65.524	35.23
Mittl. Ort	27.894	6.06	3.616	4.70	40.716	27.27	60.182	6.51
sec δ , tg δ	1.982	+1.711	1.025	+0.225	1.014	-0.171	1.482	+1.094
a, a'	+4.8	+12.7	+3.3	+12.4	+2.9	+12.2	+4.3	+11.6
b, b'	+0.07	-0.78	+0.01	-0.79	-0.01	-0.79	+0.04	-0.81

¹⁾ Die jährliche Parallaxe (0.32) ist bereits berücksichtigt.

*) Bei Stern 131) lies Nov. 16

Tag	134) ν Persei		138) δ Camelop.		141) β Reticuli		139) η Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	3 ^h 40 ^m	+42° 21'	3 ^h 42 ^m	+71° 7'	3 ^h 43 ^m	−65° 0'	3 ^h 43 ^m	+23° 53'
Jan. 0	30.560 ⁸¹	57.30 ⁹⁴	64.05 ³⁰	37.50 ²¹²	22.60 ³⁷	94.02 ²⁰⁰	23.311 ⁵¹	44.94 ¹³
10	30.479 ¹²⁵	58.24 ⁶⁸	63.75 ⁴⁰	39.62 ¹⁶⁹	22.23 ⁴²	96.02 ¹⁴⁸	23.260 ⁸⁸	45.07 ³
20	30.354 ¹⁶⁴	58.92 ⁴⁰	63.35 ⁴⁸	41.31 ¹²⁰	21.81 ⁴⁷	97.50 ⁹³	23.172 ¹²⁰	45.10 ⁹
30	30.190 ¹⁹³	59.32 ⁹	62.87 ⁵⁴	42.51 ⁶⁷	21.34 ⁵⁰	98.43 ³⁶	23.052 ¹⁴⁴	45.01 ²⁰
Feb. 9	29.997 ²¹⁰	59.41 ²¹	62.33 ⁵⁷	43.18 ¹²	20.84 ⁵¹	98.79 ²²	22.908 ¹⁶⁰	44.81 ³⁰
19	29.787 ²¹⁷	59.20 ⁵¹	61.76 ⁵⁷	43.30 ⁴³	20.33 ⁵²	98.57 ⁷⁹	22.748 ¹⁶⁷	44.51 ⁴⁰
März 1	29.570 ²⁰⁹	58.69 ⁷⁷	61.19 ⁵⁶	42.87 ⁹⁴	19.81 ⁵⁰	97.78 ¹³³	22.581 ¹⁶³	44.11 ⁴⁸
11	29.361 ¹⁸⁹	57.92 ¹⁰¹	60.63 ⁵⁰	41.93 ¹⁴¹	19.31 ⁴⁶	96.45 ¹⁸³	22.418 ¹⁴⁸	43.63 ⁵³
21	29.172 ¹⁵⁶	56.91 ¹¹⁷	60.13 ⁴²	40.52 ¹⁸¹	18.85 ⁴²	94.62 ²²⁹	22.270 ¹²²	43.10 ⁵⁵
31	29.016 ¹¹³	55.74 ¹²⁹	59.71 ³³	38.71 ²¹⁴	18.43 ³⁶	92.33 ²⁶⁹	22.148 ⁸⁸	42.55 ⁵³
Apr. 10	28.903 ⁶¹	54.45 ¹³⁵	59.38 ²²	36.57 ²³⁶	18.07 ²⁸	89.64 ³⁰³	22.060 ⁴⁷	42.02 ⁴⁶
20	28.842 ³	53.10 ¹³⁴	59.16 ⁹	34.21 ²⁵⁰	17.79 ²¹	86.61 ³³¹	22.013 ⁰	41.56 ³⁶
30	28.839 ⁵⁷	51.76 ¹²⁶	59.07 ⁴	31.71 ²⁵³	17.58 ¹²	83.30 ³⁵¹	22.013 ⁵⁰	41.20 ²³
Mai 10	28.896 ¹¹⁹	50.50 ¹¹²	59.11 ¹⁷	29.18 ²⁴⁷	17.46 ³	79.79 ³⁶⁴	22.063 ¹⁰⁰	40.97 ⁷
20	29.015 ¹⁷⁷	49.38 ⁹⁵	59.28 ³⁰	26.71 ²³³	17.43 ⁷	76.15 ³⁶⁹	22.163 ¹⁴⁹	40.90 ¹⁰
30	29.192 ²³²	48.43 ⁷³	59.58 ⁴²	24.38 ²¹¹	17.50 ¹⁵	72.46 ³⁶⁴	22.312 ¹⁹⁴	41.00 ³⁰
Juni 9	29.424 ²⁸²	47.70 ⁴⁸	60.00 ⁵²	22.27 ¹⁸²	17.65 ²⁴	68.82 ³⁵²	22.506 ²³⁵	41.30 ⁴⁹
19	29.706 ³²³	47.22 ²²	60.52 ⁶¹	20.45 ¹⁴⁹	17.89 ³²	65.30 ³³⁰	22.741 ²⁶⁹	41.79 ⁶⁶
29	30.029 ³⁵⁷	47.00 ⁵	61.13 ⁷⁰	18.96 ¹¹¹	18.21 ⁴⁰	62.00 ³⁰⁰	23.010 ²⁹⁸	42.45 ⁸³
Juli 9	30.386 ³⁸²	47.05 ³¹	61.83 ⁷⁶	17.85 ⁷¹	18.61 ⁴⁵	59.00 ²⁶¹	23.308 ³¹⁹	43.28 ⁹⁷
19	30.768 ³⁹⁹	47.36 ⁵⁶	62.59 ⁸⁰	17.14 ²⁹	19.06 ⁵⁰	56.39 ²¹⁶	23.627 ³³²	44.25 ¹⁰⁸
29	31.167 ⁴⁰⁷	47.92 ⁸¹	63.39 ⁸³	16.85 ¹⁴	19.56 ⁵⁴	54.23 ¹⁶³	23.959 ³³⁹	45.33 ¹¹⁵
Aug. 8	31.574 ⁴⁰⁸	48.73 ¹⁰¹	64.22 ⁸⁴	16.99 ⁵⁷	20.10 ⁵⁵	52.60 ¹⁰⁵	24.298 ³³⁹	46.48 ¹¹⁹
18	31.982 ⁴⁰²	49.74 ¹²⁰	65.06 ⁸³	17.56 ⁹⁶	20.65 ⁵⁶	51.55 ⁴⁵	24.637 ³³⁴	47.67 ¹²¹
28	32.384 ³⁸⁹	50.94 ¹³⁶	65.89 ⁸²	18.52 ¹³⁵	21.21 ⁵⁶	51.10 ¹⁹	24.971 ³²⁴	48.88 ¹¹⁸
Sept. 7	32.773 ³⁷²	52.30 ¹⁴⁸	66.71 ⁷⁸	19.87 ¹⁷²	21.77 ⁵²	51.29 ⁸¹	25.295 ³⁰⁹	50.06 ¹¹³
17	33.145 ³⁵¹	53.78 ¹⁵⁸	67.49 ⁷⁴	21.59 ²⁰⁵	22.29 ⁴⁸	52.10 ¹⁴²	25.604 ²⁹²	51.19 ¹⁰⁵
27	33.496 ³²⁵	55.36 ¹⁶⁶	68.23 ⁶⁸	23.64 ²³⁴	22.77 ⁴³	53.52 ¹⁹⁷	25.896 ²⁷⁰	52.24 ⁹⁷
Okt. 7	33.821 ²⁹⁶	57.02 ¹⁷⁰	68.91 ⁶¹	25.98 ²⁶⁰	23.20 ³⁶	55.49 ²⁴⁵	26.166 ²⁴⁷	53.21 ⁸⁸
17	34.117 ²⁶⁴	58.72 ¹⁷³	69.52 ⁵⁴	28.58 ²⁸⁰	23.56 ²⁸	57.94 ²⁸⁴	26.413 ²²¹	54.09 ⁷⁸
27	34.381 ²²⁷	60.45 ¹⁷²	70.06 ⁴⁵	31.38 ²⁹⁵	23.84 ¹⁹	60.78 ³¹²	26.634 ¹⁹²	54.87 ⁶⁹
Nov. 6	34.608 ¹⁸⁸	62.17 ¹⁷⁰	70.51 ³⁵	34.33 ³⁰⁴	24.03 ¹¹	63.90 ³²⁹	26.826 ¹⁶²	55.56 ⁶⁰
16	34.796 ¹⁴⁵	63.87 ¹⁶⁴	70.86 ²⁴	37.37 ³⁰⁵	24.14 ²	67.19 ³³⁴	26.988 ¹²⁸	56.16 ⁵¹
25	34.941 ⁹⁹	65.51 ¹⁵⁵	71.10 ¹³	40.42 ³⁰⁰	24.16 ⁸	70.53 ³²⁴	27.116 ⁹¹	56.67 ⁴³
Dez. 5	35.040 ⁵⁰	67.06 ¹⁴³	71.23 ¹	43.42 ²⁸⁶	24.08 ¹⁷	73.77 ³⁰⁴	27.207 ⁵³	57.10 ³⁴
15	35.090 ⁰	68.49 ¹²⁷	71.24 ¹²	46.28 ²⁶⁴	23.91 ²⁵	76.81 ²⁷²	27.260 ¹⁴	57.44 ²⁶
25	35.090 ⁴⁹	69.76 ¹⁰⁶	71.12 ²³	48.92 ²³²	23.66 ³²	79.53 ²³¹	27.274 ²⁶	57.70 ¹⁷
35	35.041	70.82	70.89	51.24	23.34	81.84	27.248	57.87
Mittl. Ort	29.935	43.39	62.51	19.27	19.67	86.34	22.729	35.04
sec δ , tg δ	1.353	+0.912	3.091	+2.924	2.368	−2.147	1.094	+0.443
a, a'	+4.1	+11.5	+6.3	+11.3	+0.7	+11.3	+3.6	+11.3
b, b'	+0.03	−0.82	+0.11	−0.83	−0.08	−0.83	+0.02	−0.83

Tag	140) τ^6 Eridani		143) g Eridani		146) γ Hydri		144) ζ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	3 ^h 43 ^m	—23° 26'	3 ^h 46 ^m	—36° 23'	3 ^h 48 ^m	—74° 26'	3 ^h 49 ^m	+31° 40'
Jan. 0	53.628 ⁸⁴	70.17 ¹⁶²	53.539 ¹²⁰	93.84 ¹⁸⁹	22.20 ⁶⁵	71.22 ¹⁹⁷	48.017 ⁵⁴	60.12 ⁵⁰
10	53.544 ¹¹⁷	71.79 ¹³²	53.419 ¹⁵⁵	95.73 ¹⁵¹	21.55 ⁷³	73.19 ¹⁴⁵	47.963 ⁹⁴	60.62 ³⁴
20	53.427 ¹⁴⁴	73.11 ⁹⁸	53.264 ¹⁸⁶	97.24 ¹⁰⁸	20.82 ⁸¹	74.64 ⁸⁹	47.869 ¹²⁸	60.96 ¹⁵
30	53.283 ¹⁶⁶	74.09 ⁶²	53.078 ²⁰⁸	98.32 ⁶³	20.01 ⁸⁵	75.53 ³¹	47.741 ¹⁵⁷	61.11 ³
Feb. 9	53.117 ¹⁸⁰	74.71 ²⁵	52.870 ²²²	98.95 ¹⁶	19.16 ⁸⁷	75.84 ²⁸	47.584 ¹⁷⁵	61.08 ²²
19	52.937 ¹⁸⁵	74.96 ¹²	52.648 ²²⁸	99.11 ³¹	18.29 ⁸⁶	75.56 ⁸⁵	47.409 ¹⁸³	60.86 ⁴¹
März 1	52.752 ¹⁸¹	74.84 ⁵⁰	52.420 ²²²	98.80 ⁷⁶	17.43 ⁸⁴	74.71 ¹³⁷	47.226 ¹⁷⁹	60.45 ⁵⁶
11	52.571 ¹⁶⁷	74.34 ⁸⁶	52.198 ²⁰⁶	98.04 ¹²⁰	16.59 ⁷⁹	73.34 ¹⁸⁸	47.047 ¹⁶⁴	59.89 ⁷⁰
21	52.404 ¹⁴⁴	73.48 ¹²¹	51.992 ¹⁸²	96.84 ¹⁶¹	15.80 ⁷²	71.46 ²³³	46.883 ¹³⁷	59.19 ⁷⁹
31	52.260 ¹¹³	72.27 ¹⁵³	51.810 ¹⁴⁸	95.23 ¹⁹⁹	15.08 ⁶²	69.13 ²⁷³	46.746 ¹⁰²	58.40 ⁸³
Apr. 10	52.147 ⁷⁴	70.74 ¹⁸⁴	51.662 ¹⁰⁶	93.24 ²³²	14.46 ⁵²	66.40 ³⁰⁶	46.644 ⁵⁷	57.57 ⁸³
20	52.073 ³²	68.90 ²¹¹	51.556 ⁶⁰	90.92 ²⁶²	13.94 ⁴⁰	63.34 ³³³	46.587 ⁷	56.74 ⁷⁸
30	52.041 ¹⁴	66.79 ²³³	51.496 ⁹	88.30 ²⁸⁵	13.54 ²⁷	60.01 ³⁵¹	46.580 ⁴⁵	55.96 ⁶⁸
Mai 10	52.055 ⁶³	64.46 ²⁵²	51.487 ⁴³	85.45 ³⁰³	13.27 ¹³	56.50 ³⁶⁴	46.625 ⁹⁹	55.28 ⁵⁴
20	52.118 ¹⁰⁹	61.94 ²⁶⁵	51.530 ⁹⁶	82.42 ³¹⁵	13.14 ¹	52.86 ³⁶⁷	46.724 ¹⁵¹	54.74 ³⁷
30	52.227 ¹⁵⁵	59.29 ²⁷³	51.626 ¹⁴⁷	79.27 ³¹⁸	13.15 ¹⁵	49.19 ³⁶²	46.875 ²⁰⁰	54.37 ¹⁸
Juni 9	52.382 ¹⁹⁶	56.56 ²⁷³	51.773 ¹⁹⁴	76.09 ³¹⁵	13.30 ²⁸	45.57 ³⁴⁹	47.075 ²⁴⁴	54.19 ³
19	52.578 ²³²	53.83 ²⁶⁸	51.967 ²³⁶	72.94 ³⁰³	13.58 ⁴¹	42.08 ³²⁶	47.319 ²⁸²	54.22 ²⁴
29	52.810 ²⁶³	51.15 ²⁵⁴	52.203 ²⁷¹	69.91 ²⁸⁴	13.99 ⁵³	38.82 ²⁹⁴	47.601 ³¹²	54.46 ⁴⁴
Juli 9	53.073 ²⁸⁷	48.61 ²³⁵	52.474 ³⁰¹	67.07 ²⁵⁷	14.52 ⁶³	35.88 ²⁵⁷	47.913 ³³⁶	54.90 ⁶²
19	53.360 ³⁰³	46.26 ²⁰⁸	52.775 ³²²	64.50 ²²³	15.15 ⁷¹	33.31 ²¹⁰	48.249 ³⁵¹	55.52 ⁸⁰
29	53.663 ³¹⁴	44.18 ¹⁷⁵	53.097 ³³⁶	62.27 ¹⁸¹	15.86 ⁷⁷	31.21 ¹⁵⁷	48.600 ³⁶⁰	56.32 ⁹⁴
Aug. 8	53.977 ³¹⁶	42.43 ¹³⁶	53.433 ³⁴²	60.46 ¹³⁵	16.63 ⁸²	29.64 ⁹⁹	48.960 ³⁶²	57.26 ¹⁰⁶
18	54.293 ³¹³	41.07 ⁹⁴	53.775 ³⁴¹	59.11 ⁸³	17.45 ⁸³	28.65 ³⁹	49.322 ³⁵⁷	58.32 ¹¹⁴
28	54.606 ³⁰⁴	40.13 ⁴⁹	54.116 ³³²	58.28 ²⁹	18.28 ⁸²	28.26 ²⁵	49.679 ³⁴⁷	59.46 ¹¹⁹
Sept. 7	54.910 ²⁸⁹	39.64 ¹	54.448 ³¹⁶	57.99 ²⁵	19.10 ⁷⁹	28.51 ⁸⁸	50.026 ³³⁴	60.65 ¹²²
17	55.199 ²⁷⁰	39.63 ⁴⁶	54.764 ²⁹⁵	58.24 ⁸⁰	19.89 ⁷²	29.39 ¹⁴⁷	50.360 ³¹⁵	61.87 ¹²³
27	55.469 ²⁴⁷	40.09 ⁹⁰	55.059 ²⁶⁸	59.04 ¹³⁰	20.61 ⁶⁴	30.86 ²⁰²	50.675 ²⁹⁵	63.10 ¹²²
Okt. 7	55.716 ²²⁰	40.99 ¹³⁰	55.327 ²³⁷	60.34 ¹⁷⁶	21.25 ⁵³	32.88 ²⁵⁰	50.970 ²⁷⁰	64.32 ¹¹⁸
17	55.936 ¹⁹¹	42.29 ¹⁰⁵	55.564 ²⁰²	62.10 ²¹⁴	21.78 ⁴⁰	35.38 ²⁸⁹	51.240 ²⁴³	65.50 ¹¹⁴
27	56.127 ¹⁵⁹	43.94 ¹⁹³	55.766 ¹⁶³	64.24 ²⁴⁵	22.18 ²⁷	38.27 ³¹⁶	51.483 ²¹³	66.64 ¹¹⁰
Nov. 6	56.286 ¹²⁵	45.87 ²¹²	55.929 ¹²²	66.69 ²⁶⁵	22.45 ¹²	41.43 ³³²	51.696 ¹⁷⁹	67.74 ¹⁰⁴
16	56.411 ⁸⁹	47.99 ²²³	56.051 ⁷⁹	69.34 ²⁷⁵	22.57 ³	44.75 ³³⁵	51.875 ¹⁴⁴	68.78 ⁹⁷
25	56.500 ⁵¹	50.22 ²²⁴	56.130 ³⁵	72.09 ²⁷⁴	22.54 ¹⁸	48.10 ³²⁵	52.019 ¹⁰⁴	69.75 ⁹⁰
Dez. 5	56.551 ¹³	52.46 ²¹⁷	56.165 ⁹	74.83 ²⁶²	22.36 ³³	51.35 ³⁰³	52.123 ⁶²	70.65 ⁸⁰
15	56.564 ²⁵	54.63 ²⁰²	56.156 ⁵⁴	77.45 ²⁴²	22.03 ⁴⁶	54.38 ²⁷¹	52.185 ¹⁸	71.45 ⁷⁰
25	56.539 ⁶²	56.65 ¹⁸¹	56.102 ⁹⁵	79.87 ²¹⁴	21.57 ⁵⁹	57.09 ²²⁹	52.203 ²⁶	72.15 ⁵⁷
35	56.477	58.46	56.007	82.01	20.98	59.38	52.177	72.72
Mittl. Ort	52.681	68.93	52.301	90.23	17.25	63.41	47.390	48.52
sec δ , tg δ	1.090	—0.434	1.243	—0.738	3.730	—3.594	1.175	+0.617
a , a'	+2.6	+11.2	+2.2	+11.0	—1.0	+10.9	+3.8	+10.8
b , b'	—0.02	—0.83	—0.03	—0.84	—0.13	—0.84	+0.02	—0.84

Tag	145) 9 H. Camelop.		147) ε Persei		148) ξ Persei		149) γ Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	3 ^h 51 ^m	+60° 54'	3 ^h 53 ^m	+39° 48'	3 ^h 54 ^m	+35° 35'	3 ^h 54 ^m	—13° 41'
Jan. 0	15.35 ¹⁵	47.76 ¹⁷⁹	13.722 ⁶²	56.74 ⁸⁹	29.632 ⁵⁵	50.85 ⁷⁰	49.385 ⁶⁰	72.27 ¹³⁹
10	15.20 ²²	49.55 ¹⁴³	13.660 ¹⁰⁸	57.63 ⁶⁶	29.577 ⁹⁷	51.55 ⁵⁰	49.325 ⁹³	73.66 ¹¹⁷
20	14.98 ²⁸	50.98 ¹⁰²	13.552 ¹⁴⁷	58.29 ⁴¹	29.480 ¹³⁵	52.05 ³⁰	49.232 ¹²²	74.83 ⁹¹
30	14.70 ³³	52.00 ⁵⁶	13.405 ¹⁷⁹	58.70 ¹⁵	29.345 ¹⁶⁴	52.35 ⁷	49.110 ¹⁴⁵	75.74 ⁶⁴
Feb. 9	14.37 ³⁵	52.56 ⁹	13.226 ¹⁹⁹	58.85 ¹³	29.181 ¹⁸⁵	52.42 ¹⁵	48.965 ¹⁶²	76.38 ³⁵
19	14.02 ³⁶	52.65 ³⁷	13.027 ²⁰⁸	58.72 ³⁹	28.996 ¹⁹⁴	52.27 ³⁸	48.803 ¹⁶⁹	76.73 ⁶
März 1	13.66 ³⁶	52.28 ⁸²	12.819 ²⁰⁴	58.33 ⁶⁵	28.802 ¹⁹¹	51.89 ⁵⁹	48.634 ¹⁶⁷	76.79 ²⁴
11	13.30 ³²	51.46 ¹²²	12.615 ¹⁸⁷	57.68 ⁸⁵	28.611 ¹⁷⁶	51.30 ⁷⁵	48.467 ¹⁵⁵	76.55 ⁵³
21	12.98 ²⁷	50.24 ¹⁵⁶	12.428 ¹⁵⁸	56.83 ¹⁰²	28.435 ¹⁴⁸	50.55 ⁸⁹	48.312 ¹³⁴	76.02 ⁸²
31	12.71 ²¹	48.68 ¹⁸³	12.270 ¹¹⁹	55.81 ¹¹³	28.287 ¹¹¹	49.66 ⁹⁷	48.178 ¹⁰⁶	75.20 ¹¹⁰
Apr. 10	12.50 ¹⁴	46.85 ²⁰²	12.151 ⁷⁰	54.68 ¹¹⁹	28.176 ⁶⁶	48.69 ¹⁰⁰	48.072 ⁷¹	74.10 ¹³⁷
20	12.36 ⁵	44.83 ²¹²	12.081 ¹⁶	53.49 ¹¹⁹	28.110 ¹⁴	47.69 ⁹⁷	48.001 ²⁹	72.73 ¹⁶²
30	12.31 ³	42.71 ²¹³	12.065 ⁴²	52.30 ¹¹³	28.096 ⁴⁰	46.72 ⁹⁰	47.972 ¹⁶	71.11 ¹⁸⁴
Mai 10	12.34 ¹³	40.58 ²⁰⁷	12.107 ¹⁰¹	51.17 ¹⁰¹	28.136 ⁹⁷	45.82 ⁷⁸	47.988 ⁶¹	69.27 ²⁰⁴
20	12.47 ²¹	38.51 ¹⁹⁴	12.208 ¹⁵⁹	50.16 ⁸⁵	28.233 ¹⁵¹	45.04 ⁶¹	48.049 ¹⁰⁶	67.23 ²¹⁹
30	12.68 ³⁰	36.57 ¹⁷²	12.367 ²¹²	49.31 ⁶⁶	28.384 ²⁰²	44.43 ⁴³	48.155 ¹⁵⁰	65.04 ²²⁹
Juni 9	12.98 ³⁷	34.85 ¹⁴⁷	12.579 ²⁶¹	48.65 ⁴³	28.586 ²⁴⁹	44.00 ²¹	48.305 ¹⁸⁹	62.75 ²³⁵
19	13.35 ⁴³	33.38 ¹¹⁶	12.840 ³⁰³	48.22 ²⁰	28.835 ²⁸⁸	43.79 ¹	48.494 ²²⁵	60.40 ²³⁴
29	13.78 ⁴⁹	32.22 ⁸³	13.143 ³³⁷	48.02 ⁵	29.123 ³²¹	43.80 ²³	48.719 ²⁵⁴	58.06 ²²⁸
Juli 9	14.27 ⁵³	31.39 ⁴⁸	13.480 ³⁶³	48.07 ²⁸	29.444 ³⁴⁶	44.03 ⁴³	48.973 ²⁷⁷	55.78 ²¹⁵
19	14.80 ⁵⁶	30.91 ¹¹	13.843 ³⁸²	48.35 ⁵¹	29.790 ³⁶⁴	44.46 ⁶³	49.250 ²⁹³	53.63 ¹⁹⁶
29	15.36 ⁵⁷	30.80 ²⁵	14.225 ³⁹¹	48.86 ⁷²	30.154 ³⁷³	45.09 ⁸¹	49.543 ³⁰³	51.67 ¹⁷¹
Aug. 8	15.93 ⁵⁹	31.05 ⁶⁰	14.616 ³⁹⁵	49.58 ⁹¹	30.527 ³⁷⁶	45.90 ⁹⁶	49.846 ³⁰⁷	49.96 ¹⁴¹
18	16.52 ⁵⁸	31.65 ⁹⁴	15.011 ³⁹²	50.49 ¹⁰⁷	30.903 ³⁷²	46.86 ¹⁰⁸	50.153 ³⁰⁵	48.55 ¹⁰⁶
28	17.10 ⁵⁷	32.59 ¹²⁶	15.403 ³⁸²	51.56 ¹²⁰	31.275 ³⁶³	47.94 ¹¹⁷	50.458 ²⁹⁷	47.49 ⁶⁸
Sept. 7	17.67 ⁵⁵	33.85 ¹⁵⁵	15.785 ³⁶⁷	52.76 ¹³¹	31.638 ³⁵⁰	49.11 ¹²⁴	50.755 ²⁸⁵	46.81 ²⁸
17	18.22 ⁵²	35.40 ¹⁸²	16.152 ³⁴⁸	54.07 ¹³⁹	31.988 ³³²	50.35 ¹²⁸	51.040 ²⁶⁹	46.53 ¹³
27	18.74 ⁴⁹	37.22 ²⁰⁴	16.500 ³²⁶	55.46 ¹⁴⁶	32.320 ³¹¹	51.63 ¹³¹	51.309 ²⁴⁹	46.66 ⁵²
Okt. 7	19.23 ⁴⁴	39.26 ²²⁵	16.826 ³⁰⁰	56.92 ¹⁵⁰	32.631 ²⁸⁶	52.94 ¹³¹	51.558 ²²⁶	47.18 ⁸⁸
17	19.67 ³⁹	41.51 ²⁴⁰	17.126 ²⁷⁰	58.42 ¹⁵¹	32.917 ²⁵⁸	54.25 ¹³¹	51.784 ²⁰⁰	48.06 ¹¹⁹
27	20.06 ³⁴	43.91 ²⁵²	17.396 ²³⁶	59.93 ¹⁵¹	33.175 ²²⁷	55.56 ¹²⁸	51.984 ¹⁷²	49.25 ¹⁴⁶
Nov. 6	20.40 ²⁷	46.43 ²⁵⁷	17.632 ²⁰⁰	61.44 ¹⁵⁰	33.402 ¹⁹²	56.84 ¹²⁵	52.156 ¹⁴¹	50.71 ¹⁶⁴
16	20.67 ²¹	49.00 ²⁵⁹	17.832 ¹⁵⁸	62.94 ¹⁴⁵	33.594 ¹⁵⁴	58.09 ¹¹⁹	52.297 ¹⁰⁸	52.35 ¹⁷⁷
25	20.88 ¹³	51.59 ²⁵⁴	17.990 ¹¹⁵	64.39 ¹³⁸	33.748 ¹¹³	59.28 ¹¹³	52.405 ⁷⁴	54.12 ¹⁸¹
Dez. 5	21.01 ⁶	54.13 ²⁴²	18.105 ⁶⁷	65.77 ¹²⁹	33.861 ⁶⁸	60.41 ¹⁰⁴	52.479 ³⁷	55.93 ¹⁷⁸
15	21.07 ³	56.55 ²²³	18.172 ¹⁸	67.06 ¹¹⁵	33.929 ²²	61.45 ⁹²	52.516 ⁰	57.71 ¹⁶⁹
25	21.04 ¹⁰	58.78 ¹⁹⁷	18.190 ³²	68.21 ⁹⁹	33.951 ²⁵	62.37 ⁷⁸	52.516 ³⁷	59.40 ¹⁵³
35	20.94	60.75	18.158	69.20	33.926	63.15	52.479	60.93
Mittl. Ort	14.29	31.02	13.032	43.53	28.962	38.49	48.538	73.65
sec δ, tg δ	2.057	+1.797	1.302	+0.834	1.230	+0.716	1.029	—0.244
a, a'	+5.1	+10.7	+4.0	+10.5	+3.9	+10.4	+2.8	+10.4
b, b'	+0.06	—0.85	+0.03	—0.85	+0.02	—0.85	—0.01	—0.85

Obere Kulmination Greenwich

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Tag	150) λ Tauri		151) ν Tauri		152) c Persei		154) ϕ^1 Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$3^h 56^m$	$+12^\circ 17'$	$3^h 59^m$	$+5^\circ 47'$	$4^h 3^m$	$+47^\circ 31'$	$4^h 8^m$	$-7^\circ 0'$
Jan. 0	51.935	55.18	29.722	62.27	39.539	62.18	30.591	55.62
10	51.896	54.81	29.683	61.61	39.469	63.47	30.549	56.83
20	51.822	54.44	29.610	61.01	39.346	64.50	30.472	57.87
30	51.716	54.09	29.505	60.49	39.176	65.23	30.364	58.71
Feb. 9	51.585	53.75	29.376	60.06	38.969	65.63	30.229	59.34
19	51.436	53.43	29.229	59.72	38.737	65.68	30.076	59.75
März 1	51.279	53.15	29.072	59.47	38.492	65.39	29.913	59.92
11	51.123	52.91	28.917	59.34	38.250	64.78	29.750	59.85
21	50.978	52.73	28.772	59.33	38.025	63.87	29.596	59.54
31	50.854	52.63	28.648	59.46	37.831	62.71	29.460	58.99
Apr. 10	50.761	52.63	28.553	59.74	37.680	61.36	29.351	58.20
20	50.705	52.75	28.493	60.18	37.583	59.89	29.277	57.18
30	50.691	53.02	28.475	60.80	37.546	58.37	29.242	55.93
Mai 10	50.723	53.44	28.501	61.59	37.573	56.85	29.251	54.47
20	50.802	54.03	28.573	62.55	37.667	55.41	29.305	52.82
30	50.927	54.79	28.690	63.68	37.826	54.10	29.404	51.00
Juni 9	51.095	55.70	28.850	64.95	38.046	52.97	29.545	49.07
19	51.303	56.75	29.049	66.34	38.321	52.06	29.727	47.05
29	51.545	57.93	29.282	67.82	38.645	51.40	29.943	44.99
Juli 9	51.815	59.19	29.543	69.36	39.010	51.01	30.188	42.96
19	52.106	60.51	29.826	70.90	39.406	50.89	30.458	41.01
29	52.412	61.84	30.124	72.40	39.826	51.04	30.745	39.19
Aug. 8	52.728	63.14	30.431	73.81	40.260	51.45	31.043	37.56
18	53.045	64.37	30.741	75.09	40.700	52.12	31.346	36.18
28	53.360	65.49	31.049	76.21	41.139	53.01	31.649	35.08
Sept. 7	53.667	66.48	31.349	77.12	41.571	54.10	31.946	34.30
17	53.962	67.30	31.639	77.81	41.989	55.38	32.233	33.87
27	54.241	67.94	31.913	78.26	42.388	56.83	32.507	33.79
Okt. 7	54.502	68.40	32.169	78.46	42.763	58.40	32.763	34.06
17	54.743	68.68	32.405	78.44	43.110	60.09	32.999	34.65
27	54.960	68.79	32.618	78.20	43.425	61.86	33.212	35.54
Nov. 6	55.151	68.75	32.805	77.78	43.702	63.69	33.399	36.67
16	55.314	68.59	32.965	77.22	43.937	65.55	33.557	37.99
25	55.445	68.33	33.093	76.56	44.125	67.40	33.684	39.43
Dez. 5	55.542	68.01	33.188	75.83	44.262	69.21	33.777	40.93
15	55.603	67.64	33.247	75.08	44.344	70.94	33.834	42.42
25	55.627	67.25	33.270	74.33	44.369	72.53	33.853	43.85
35	55.612	66.86	33.255	73.62	44.336	73.93	33.835	45.17
Mittl. Ort sec δ , tg δ	51.270 1.024	47.87 +0.218	29.020 1.005	56.39 +0.102	38.690 1.481	47.82 +1.092	29.768 1.008	58.95 -0.123
a, a' b, b'	+3.3 +0.01	+10.3 -0.86	+3.2 0.00	+10.1 -0.86	+4.3 +0.04	+9.7 -0.87	+2.9 0.00	+9.4 -0.88

Tag	155) α Horologii		156) α Retienli		160) γ^4 Eridani		162) δ Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$4^h 11^m$	$-42^\circ 27'$	$4^h 13^m$	$-62^\circ 38'$	$4^h 15^m$	$-33^\circ 57'$	$4^h 18^m$	$+17^\circ 22'$
Jan. 0	44.276 ¹²⁶	52.76 ²²³	34.64 ²⁹	51.18 ²³⁸	18.142 ⁹⁰	58.91 ²⁰⁹	57.917 ²¹	63.89 ¹⁴
10	44.150 ¹⁶⁹	54.99 ¹⁸³	34.35 ³⁶	53.56 ¹⁹⁰	18.052 ¹³⁰	61.00 ¹⁷⁴	57.896 ⁶¹	63.75 ¹⁶
20	43.981 ²⁰⁵	56.82 ¹³⁸	33.99 ⁴¹	55.46 ¹³⁹	17.922 ¹⁶⁵	62.74 ¹³⁵	57.835 ⁹⁷	63.59 ¹⁷
30	43.776 ²³⁵	58.20 ⁹⁰	33.58 ⁴⁴	56.85 ⁸³	17.757 ¹⁹³	64.09 ⁹²	57.738 ¹²⁷	63.42 ²⁰
Feb. 9	43.541 ²⁵⁵	59.10 ⁴⁰	33.14 ⁴⁷	57.68 ²⁷	17.564 ²¹³	65.01 ⁴⁶	57.611 ¹⁴⁹	63.22 ²³
19	43.286 ²⁶⁴	59.50 ¹⁰	32.67 ⁴⁸	57.95 ³⁰	17.351 ²²⁴	65.47 ²	57.462 ¹⁶³	62.99 ²⁴
März 1	43.022 ²⁶³	59.40 ⁶⁰	32.19 ⁴⁸	57.65 ⁸⁵	17.127 ²²⁴	65.49 ⁴⁴	57.299 ¹⁶⁴	62.75 ²⁶
11	42.759 ²⁵¹	58.80 ¹⁰⁷	31.71 ⁴⁶	56.80 ¹³⁸	16.903 ²¹⁴	65.05 ⁸⁷	57.135 ¹⁵⁷	62.49 ²⁶
21	42.508 ²²⁷	57.73 ¹⁵²	31.25 ⁴²	55.42 ¹⁸⁶	16.689 ¹⁹⁴	64.18 ¹²⁹	56.978 ¹³⁷	62.23 ²³
31	42.281 ¹⁹⁵	56.21 ¹⁹⁴	30.83 ³⁷	53.56 ²³¹	16.495 ¹⁶⁴	62.89 ¹⁶⁹	56.841 ¹¹⁰	62.00 ¹⁸
Apr. 10	42.086 ¹⁵⁴	54.27 ²³¹	30.46 ³¹	51.25 ²⁷⁰	16.331 ¹²⁸	61.20 ²⁰³	56.731 ⁷⁴	61.82 ¹²
20	41.932 ¹⁰⁷	51.96 ²⁶⁴	30.15 ²⁴	48.55 ³⁰³	16.203 ⁸⁴	59.17 ²³⁵	56.657 ³²	61.70 ¹
30	41.825 ⁵⁴	49.32 ²⁹⁰	29.91 ¹⁷	45.52 ³²⁹	16.119 ³⁶	56.82 ²⁶²	56.625 ¹⁴	61.69 ¹¹
Mai 10	41.771 ¹	46.42 ³¹¹	29.74 ⁸	42.23 ³⁴⁷	16.083 ¹⁴	54.20 ²⁸³	56.639 ⁶¹	61.80 ²⁴
20	41.772 ⁵⁸	43.31 ³²⁶	29.66 ⁰	38.76 ³⁶⁰	16.097 ⁶⁶	51.37 ²⁹⁹	56.700 ¹⁰⁹	62.04 ³⁹
30	41.830 ¹¹³	40.05 ³³¹	29.66 ⁹	35.16 ³⁶³	16.163 ¹¹⁵	48.38 ³⁰⁷	56.809 ¹⁵⁴	62.43 ⁵⁴
Juni 9	41.943 ¹⁶⁵	36.74 ³³⁰	29.75 ¹⁷	31.53 ³⁵⁶	16.278 ¹⁶³	45.31 ³⁰⁸	56.963 ¹⁹⁵	62.97 ⁶⁸
19	42.108 ²¹⁴	33.44 ³¹⁹	29.92 ²⁵	27.97 ³⁴¹	16.441 ²⁰⁵	42.23 ³⁰¹	57.158 ²³¹	63.65 ⁸¹
29	42.322 ²⁵⁶	30.25 ³⁰²	30.17 ³²	24.56 ³¹⁸	16.646 ²⁴⁴	39.22 ²⁸⁷	57.389 ²⁶²	64.46 ⁹²
Juli 9	42.578 ²⁹³	27.23 ²⁷⁵	30.49 ³⁸	21.38 ²⁸⁵	16.890 ²⁷⁵	36.35 ²⁶⁴	57.651 ²⁸⁷	65.38 ¹⁰⁰
19	42.871 ³²¹	24.48 ²⁴⁰	30.87 ⁴³	18.53 ²⁴⁴	17.165 ³⁰⁰	33.71 ²³⁴	57.938 ³⁰⁵	66.38 ¹⁰⁵
29	43.192 ³⁴³	22.08 ¹⁹⁸	31.30 ⁴⁸	16.09 ¹⁹⁶	17.465 ³¹⁸	31.37 ¹⁹⁷	58.243 ³¹⁷	67.43 ¹⁰⁶
Aug. 8	43.535 ³⁵⁵	20.10 ¹⁴⁹	31.78 ⁵⁰	14.13 ¹⁴¹	17.783 ³²⁸	29.40 ¹⁵³	58.560 ³²²	68.49 ¹⁰⁴
18	43.890 ³⁶⁰	18.61 ⁹⁷	32.28 ⁵¹	12.72 ⁸²	18.111 ³³²	27.87 ¹⁰⁵	58.882 ³²³	69.53 ⁹⁹
28	44.250 ³⁵⁶	17.64 ⁴⁰	32.79 ⁵²	11.90 ¹⁹	18.443 ³³⁰	26.82 ⁵²	59.205 ³¹⁹	70.52 ⁸⁹
Sept. 7	44.606 ³⁴⁶	17.24 ¹⁹	33.31 ⁵¹	11.71 ⁴⁴	18.773 ³²⁰	26.30 ²	59.524 ³¹⁰	71.41 ⁷⁹
17	44.952 ³²⁸	17.43 ⁷⁷	33.82 ⁴⁷	12.15 ¹⁰⁷	19.093 ³⁰⁴	26.32 ⁵⁶	59.834 ²⁹⁸	72.20 ⁶⁶
27	45.280 ³⁰³	18.20 ¹³²	34.29 ⁴³	13.22 ¹⁶⁷	19.397 ²⁸⁴	26.88 ¹⁰⁸	60.132 ²⁸³	72.86 ⁵³
Okt. 7	45.583 ²⁷³	19.52 ¹⁸³	34.72 ³⁹	14.89 ²²⁰	19.681 ²⁵⁷	27.96 ¹⁵⁷	60.415 ²⁶⁴	73.39 ³⁹
17	45.856 ²³⁷	21.35 ²²⁶	35.11 ³²	17.09 ²⁶⁵	19.938 ²²⁸	29.53 ¹⁹⁸	60.679 ²⁴³	73.78 ²⁶
27	46.093 ¹⁹⁶	23.61 ²⁶¹	35.43 ²⁴	19.74 ³⁰¹	20.166 ¹⁹³	31.51 ²³³	60.922 ²¹⁸	74.04 ¹⁵
Nov. 6	46.289 ¹⁵¹	26.22 ²⁸⁶	35.67 ¹⁷	22.75 ³²⁶	20.359 ¹⁵⁵	33.84 ²⁵⁷	61.140 ¹⁹⁰	74.19 ⁶
16	46.440 ¹⁰³	29.08 ³⁰¹	35.84 ⁹	26.01 ³³⁷	20.514 ¹¹⁵	36.41 ²⁷³	61.330 ¹⁵⁹	74.25 ²
25*)	46.543 ⁵⁴	32.09 ³⁰³	35.93 ⁰	29.38 ³³⁷	20.629 ⁷¹	39.14 ²⁷⁶	61.489 ¹²⁵	74.23 ⁷
Dez. 5	46.597 ³	35.12 ²⁹⁴	35.93 ⁹	32.75 ³²⁴	20.700 ²⁶	41.90 ²⁷¹	61.614 ⁸⁶	74.16 ¹¹
15	46.600 ⁴⁸	38.06 ²⁷⁵	35.84 ¹⁷	35.99 ³⁰⁰	20.726 ¹⁹	44.61 ²⁵⁵	61.700 ⁴⁶	74.05 ¹³
25	46.552 ⁹⁸	40.81 ²⁴⁶	35.67 ²⁵	38.99 ²⁶⁶	20.707 ⁶³	47.16 ²³¹	61.746 ⁵	73.92 ¹⁵
35	46.454	43.27	35.42	41.65	20.644	49.47	61.751	73.77
Mittl. Ort	42.764	49.92	31.84	46.34	16.875	57.57	57.170	55.36
sec δ , tg δ	1.356	-0.915	2.176	-1.933	1.206	-0.674	1.048	+0.313
a, a'	+2.0	+9.1	+0.8	+9.0	+2.3	+8.8	+3.5	+8.6
b, b'	-0.03	-0.89	-0.06	-0.89	-0.02	-0.90	+0.01	-0.90

*) Bei Stern 162) lies Nov. 26

Tag	164) ϵ Tauri		168) α Tauri		171) α Doradus		169) γ Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	4 ^h 24 ^m	+19° 1'	4 ^h 31 ^m	+16° 22'	4 ^h 32 ^m	−55° 10'	4 ^h 32 ^m	−3° 29'
Jan. 0	35.870 ¹⁷	52.67 ⁶	58.333 ¹¹	27.52 ¹⁹	32.518 ¹⁸⁵	75.52 ²⁵⁷	53.075 ²¹	27.63 ¹¹⁵
10	35.853 ⁵⁸	52.61 ⁹	58.322 ⁵²	27.33 ²⁰	32.333 ²⁴²	78.09 ²¹⁴	53.054 ⁵⁹	28.78 ¹⁰¹
20	35.795 ⁹⁵	52.52 ¹¹	58.270 ⁹⁰	27.13 ²⁰	32.091 ²⁹²	80.23 ¹⁶⁶	52.995 ⁹⁴	29.79 ⁸⁴
30	35.700 ¹²⁶	52.41 ¹⁴	58.180 ¹²¹	26.93 ²⁰	31.799 ³³¹	81.89 ¹¹⁵	52.901 ¹²⁴	30.63 ⁶⁵
Feb. 9	35.574 ¹⁴⁹	52.27 ¹⁹	58.059 ¹⁴⁶	26.73 ²¹	31.468 ³⁵⁸	83.04 ⁶¹	52.777 ¹⁴⁷	31.28 ⁴⁶
19	35.425 ¹⁶⁴	52.08 ²³	57.913 ¹⁶¹	26.52 ²¹	31.110 ³⁷⁴	83.65 ⁵	52.630 ¹⁶¹	31.74 ²⁶
März 1	35.261 ¹⁶⁷	51.85 ²⁵	57.752 ¹⁶⁶	26.31 ²²	30.736 ³⁷⁵	83.70 ⁴⁹	52.469 ¹⁶⁶	32.00 ⁵
11	35.094 ¹⁶⁰	51.60 ²⁷	57.586 ¹⁶⁰	26.09 ²¹	30.361 ³⁶⁵	83.21 ¹⁰²	52.303 ¹⁶¹	32.05 ¹⁶
21	34.934 ¹⁴¹	51.33 ²⁶	57.426 ¹⁴⁴	25.88 ¹⁸	29.996 ³⁴⁰	82.19 ¹⁵¹	52.142 ¹⁴⁵	31.89 ³⁷
31	34.793 ¹¹⁴	51.07 ²⁴	57.282 ¹¹⁸	25.70 ¹³	29.656 ³⁰⁴	80.68 ¹⁹⁷	51.997 ¹²¹	31.52 ⁵⁸
April 10	34.679 ⁷⁹	50.83 ¹⁹	57.164 ⁸³	25.57 ⁶	29.352 ²⁵⁷	78.71 ²³⁸	51.876 ⁹⁰	30.94 ⁸⁰
20	34.600 ³⁷	50.64 ⁹	57.081 ⁴³	25.51 ³	29.095 ²⁰²	76.33 ²⁷⁵	51.786 ⁵¹	30.14 ¹⁰⁰
30	34.563 ⁹	50.55 ¹	57.038 ²	25.54 ¹⁵	28.893 ¹⁴⁰	73.58 ³⁰⁵	51.735 ¹⁰	29.14 ¹²⁰
Mai 10	34.572 ⁵⁷	50.56 ¹³	57.040 ⁴⁸	25.69 ²⁷	28.753 ⁷²	70.53 ³¹⁸	51.725 ³⁴	27.94 ¹³⁹
20	34.629 ¹⁰⁵	50.69 ²⁸	57.088 ⁹⁶	25.96 ⁴¹	28.681 ⁴	67.25 ³⁴⁴	51.759 ⁷⁹	26.55 ¹⁵⁴
30	34.734 ¹⁵⁰	50.97 ⁴²	57.184 ¹⁴⁰	26.37 ⁵⁵	28.677 ⁶⁶	63.81 ³⁵²	51.838 ¹²²	25.01 ¹⁶⁸
Juni 9	34.884 ¹⁹²	51.39 ⁵⁶	57.324 ¹⁸³	26.92 ⁶⁸	28.743 ¹³⁴	60.29 ³⁵¹	51.960 ¹⁶²	23.33 ¹⁷⁸
19	35.076 ²²⁹	51.95 ⁷⁰	57.507 ²¹⁹	27.60 ⁸⁰	28.877 ¹⁹⁸	56.78 ³⁴²	52.122 ¹⁹⁹	21.55 ¹⁸³
29	35.305 ²⁶¹	52.65 ⁸¹	57.726 ²⁵¹	28.40 ⁹⁰	29.075 ²⁵⁷	53.36 ³²³	52.321 ²³⁰	19.72 ¹⁸³
Juli 9	35.566 ²⁸⁶	53.46 ⁸⁹	57.977 ²⁷⁷	29.30 ⁹⁷	29.332 ³¹⁰	50.13 ²⁹⁶	52.551 ²⁵⁵	17.89 ¹⁷⁹
19	35.852 ³⁰⁵	54.35 ⁹⁶	58.254 ²⁹⁷	30.27 ¹⁰⁰	29.642 ³⁵⁴	47.17 ²⁵⁹	52.806 ²⁷⁶	16.10 ¹⁶⁸
29	36.157 ³¹⁸	55.31 ⁹⁸	58.551 ³¹⁰	31.27 ¹⁰¹	29.996 ³⁸⁹	44.58 ²¹⁶	53.082 ²⁹⁰	14.42 ¹⁵⁴
Aug. 8	36.475 ³²⁴	56.29 ⁹⁸	58.861 ³¹⁸	32.28 ⁹⁸	30.385 ⁴¹⁴	42.42 ¹⁶⁴	53.372 ²⁹⁸	12.88 ¹³²
18	36.799 ³²⁶	57.27 ⁹³	59.179 ³²⁰	33.26 ⁹¹	30.799 ⁴²⁹	40.78 ¹⁰⁹	53.670 ³⁰¹	11.56 ¹⁰⁷
28	37.125 ³²³	58.20 ⁸⁷	59.499 ³¹⁸	34.17 ⁸¹	31.228 ⁴³⁴	39.69 ⁴⁷	53.971 ³⁰⁰	10.49 ⁷⁹
Sept. 7	37.448 ³¹⁵	59.07 ⁷⁷	59.817 ³¹²	34.98 ⁷⁰	31.662 ⁴²⁷	39.22 ¹⁶	54.271 ²⁹³	9.70 ⁴⁸
17	37.763 ³⁰³	59.84 ⁶⁷	60.129 ³⁰¹	35.68 ⁵⁶	32.089 ⁴¹¹	39.38 ⁷⁸	54.564 ²⁸⁴	9.22 ¹⁵
27	38.066 ²⁸⁸	60.51 ⁵⁴	60.430 ²⁸⁸	36.24 ⁴¹	32.500 ³⁸³	40.16 ¹³⁹	54.848 ²⁷⁰	9.07 ¹⁷
Okt. 7	38.354 ²⁷¹	61.05 ⁴²	60.718 ²⁷²	36.65 ²⁷	32.883 ³⁴⁷	41.55 ¹⁹⁴	55.118 ²⁵³	9.24 ⁴⁹
17	38.625 ²⁵⁰	61.47 ³²	60.990 ²⁵²	36.92 ¹⁵	33.230 ³⁰¹	43.49 ²⁴⁴	55.371 ²³³	9.73 ⁷⁶
27	38.875 ²²⁶	61.79 ²¹	61.242 ²²⁸	37.07 ³	33.531 ²⁴⁹	45.93 ²⁸³	55.604 ²¹⁰	10.49 ¹⁰⁰
Nov. 6	39.101 ¹⁹⁸	62.00 ¹²	61.470 ²⁰²	37.10 ⁷	33.780 ¹⁹⁰	48.76 ³¹³	55.814 ¹⁸⁴	11.49 ¹¹⁹
16	39.299 ¹⁶⁷	62.12 ⁷	61.672 ¹⁷¹	37.03 ¹³	33.970 ¹²⁵	51.89 ³³¹	55.998 ¹⁵³	12.68 ¹³¹
26	39.466 ¹³¹	62.19 ¹	61.843 ¹³⁷	36.90 ¹⁸	34.095 ⁵⁷	55.20 ³³⁵	56.151 ¹²⁰	13.99 ¹³⁷
Dez. 5	39.597 ⁹⁴	62.20 ²	61.980 ⁹⁸	36.72 ²¹	34.152 ¹²	58.55 ³²⁹	56.271 ⁸³	15.36 ¹³⁹
15	39.691 ⁵³	62.18 ⁵	62.078 ⁵⁹	36.51 ²²	34.140 ⁸⁰	61.84 ³¹¹	56.354 ⁴⁴	16.75 ¹³⁵
25	39.744 ¹⁰	62.13 ⁶	62.137 ¹⁶	36.29 ²¹	34.060 ¹⁴⁶	64.95 ²⁸¹	56.398 ⁵	18.10 ¹²⁵
35	39.754	62.07	62.153	36.08	33.914	67.76	56.403	19.35
Mittl. Ort	35.100	43.82	57.535	19.17	30.313	72.91	52.204	32.36
sec δ , tg δ	1.058	+0.345	1.042	+0.294	1.752	−1.438	1.002	−0.061
a, a'	+3.5	+8.1	+3.4	+7.5	+1.3	+7.5	+3.0	+7.4
b, b'	+0.01	−0.91	+0.01	−0.93	−0.04	−0.93	0.00	−0.93

Tag	172) 53 Eridani		174) τ Tauri		173) Grb 848		175) 4 Camelop.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	4 ^h 35 ^m	—14° 25'	4 ^h 38 ^m	+22° 49'	4 ^h 39 ^m	+75° 49'	4 ^h 42 ^m	+56° 38'
Jan. 0	2.120 ³²	73.40 ¹⁶²	6.907 ⁶	43.13 ¹⁵	34.16 ²⁴	24.37 ²⁶⁶	16.214 ⁴⁶	26.43 ¹⁸⁹
10	2.088 ⁷¹	75.02 ¹⁴¹	6.901 ⁴⁹	43.28 ¹⁰	33.92 ³⁹	27.03 ²³⁴	16.168 ¹¹⁹	28.32 ¹⁶³
20	2.017 ¹⁰⁷	76.43 ¹¹⁵	6.852 ⁹⁰	43.38 ⁶	33.53 ⁵³	29.37 ¹⁹²	16.049 ¹⁸⁵	29.95 ¹³⁴
30	1.910 ¹³⁷	77.58 ⁸⁷	6.762 ¹²⁴	43.44 ¹	33.00 ⁶⁵	31.29 ¹⁴⁴	15.864 ²⁴⁰	31.29 ⁹⁹
Feb. 9	1.773 ¹⁵⁹	78.45 ⁵⁸	6.638 ¹⁵⁰	43.43 ⁸	32.35 ⁷³	32.73 ⁹²	15.624 ²⁸³	32.28 ⁵⁹
19	1.614 ¹⁷⁴	79.03 ²⁷	6.488 ¹⁶⁸	43.35 ¹⁶	31.62 ⁷⁷	33.65 ³⁵	15.341 ³⁰⁹	32.87 ¹⁷
März 1	1.440 ¹⁷⁸	79.30 ⁴	6.320 ¹⁷⁴	43.19 ²³	30.85 ⁷⁸	34.00 ²¹	15.032 ³¹⁸	33.04 ²⁴
11	1.262 ¹⁷³	79.26 ³⁴	6.146 ¹⁶⁸	42.96 ²⁸	30.07 ⁷⁶	33.79 ⁷⁶	14.714 ³⁰⁸	32.80 ⁶³
21	1.089 ¹⁵⁹	78.92 ⁶⁵	5.978 ¹⁵²	42.68 ³³	29.31 ⁶⁹	33.03 ¹²⁶	14.406 ²⁸⁰	32.17 ¹⁰⁰
31	0.930 ¹³⁴	78.27 ⁹⁴	5.826 ¹²⁶	42.35 ³⁴	28.62 ⁶⁰	31.77 ¹⁷¹	14.126 ²³⁷	31.17 ¹³²
Apr. 10	0.796 ¹⁰³	77.33 ¹²¹	5.700 ⁹⁰	42.01 ³²	28.02 ⁴⁸	30.06 ²⁰⁸	13.889 ¹⁸¹	29.85 ¹⁵⁷
20	0.693 ⁶⁵	76.12 ¹⁴⁸	5.610 ⁴⁹	41.69 ²⁸	27.54 ³³	27.98 ²³⁶	13.708 ¹¹³	28.28 ¹⁷⁵
30	0.628 ²³	74.64 ¹⁷²	5.561 ³	41.41 ²⁰	27.21 ¹⁷	25.62 ²⁵⁵	13.595 ⁴⁰	26.53 ¹⁸⁵
Mai 10	0.605 ²¹	72.92 ¹⁹³	5.558 ⁴⁵	41.21 ¹⁰	27.04 ⁰	23.07 ²⁶⁴	13.555 ³⁸	24.68 ¹⁸⁹
20	0.626 ⁶⁷	70.99 ²⁰⁹	5.603 ⁹⁴	41.11 ²	27.04 ¹⁶	20.43 ²⁶⁵	13.593 ¹¹⁷	22.79 ¹⁸⁶
30	0.693 ¹¹¹	68.90 ²²²	5.697 ¹⁴¹	41.13 ¹⁵	27.20 ³³	17.78 ²⁵⁶	13.710 ¹⁹²	20.93 ¹⁷⁶
Juni 9	0.804 ¹⁵²	66.68 ²³⁰	5.838 ¹⁸⁵	41.28 ²⁸	27.53 ⁴⁸	15.22 ²⁴¹	13.902 ²⁶³	19.17 ¹⁶⁰
19	0.956 ¹⁹⁰	64.38 ²³²	6.023 ²²³	41.56 ⁴²	28.01 ⁶³	12.81 ²¹⁸	14.165 ³²⁸	17.57 ¹⁴⁰
29	1.146 ²²³	62.06 ²²⁷	6.246 ²⁵⁷	41.98 ⁵⁵	28.64 ⁷⁵	10.63 ¹⁹⁰	14.493 ³⁸⁵	16.17 ¹¹⁶
Juli 9	1.369 ²⁵⁰	59.79 ²¹⁷	6.503 ²⁸⁴	42.53 ⁶⁵	29.39 ⁸⁶	8.73 ¹⁵⁶	14.878 ⁴³²	15.01 ⁹⁰
19	1.619 ²⁷²	57.62 ²⁰⁰	6.787 ³⁰⁶	43.18 ⁷²	30.25 ⁹⁵	7.17 ¹¹⁹	15.310 ⁴⁶⁹	14.11 ⁶²
29	1.891 ²⁸⁸	55.62 ¹⁷⁶	7.093 ³²⁰	43.90 ⁷⁸	31.20 ¹⁰²	5.98 ⁸¹	15.779 ⁴⁹⁷	13.49 ³²
Aug. 8	2.179 ²⁹⁸	53.86 ¹⁴⁸	7.413 ³²⁹	44.68 ⁸¹	32.22 ¹⁰⁷	5.17 ³⁹	16.276 ⁵¹⁷	13.17 ³
18	2.477 ³⁰²	52.38 ¹¹²	7.742 ³³³	45.49 ⁸⁰	33.29 ¹¹⁰	4.78 ²	16.793 ⁵²⁶	13.14 ²⁷
28	2.779 ³⁰¹	51.26 ⁷⁵	8.075 ³³²	46.29 ⁷⁷	34.39 ¹¹¹	4.80 ⁴⁴	17.319 ⁵²⁹	13.41 ⁵⁵
Sept. 7	3.080 ²⁹⁶	50.51 ³⁴	8.407 ³²⁶	47.06 ⁷²	35.50 ¹¹⁰	5.24 ⁸⁵	17.848 ⁵²²	13.96 ⁸²
17	3.376 ²⁸⁵	50.17 ⁷	8.733 ³¹⁶	47.78 ⁶⁴	36.60 ¹⁰⁷	6.09 ¹²⁵	18.370 ⁵¹⁰	14.78 ¹⁰⁷
27	3.661 ²⁷²	50.24 ⁴⁹	9.049 ³⁰³	48.42 ⁵⁷	37.67 ¹⁰²	7.34 ¹⁶²	18.880 ⁴⁹⁰	15.85 ¹³¹
Okt. 7	3.933 ²⁵⁴	50.73 ⁸⁹	9.352 ²⁸⁸	48.99 ⁴⁸	38.69 ⁹⁶	8.96 ¹⁹⁷	19.370 ⁴⁶⁴	17.16 ¹⁵³
17	4.187 ²³²	51.62 ¹²³	9.640 ²⁶⁷	49.47 ⁴¹	39.65 ⁸⁸	10.93 ²²⁹	19.834 ⁴³⁰	18.69 ¹⁷²
27	4.419 ²⁰⁸	52.85 ¹⁵²	9.907 ²⁴⁵	49.88 ³⁴	40.53 ⁷⁸	13.22 ²⁵⁷	20.264 ³⁸⁹	20.41 ¹⁸⁹
Nov. 6	4.627 ¹⁸⁰	54.37 ¹⁷⁵	10.152 ²¹⁷	50.22 ²⁸	41.31 ⁶⁶	15.79 ²⁷⁹	20.653 ³⁴¹	22.30 ²⁰³
16	4.807 ¹⁴⁷	56.12 ¹⁹¹	10.369 ¹⁸⁵	50.50 ²⁴	41.97 ⁵²	18.58 ²⁹⁶	20.994 ²⁸⁵	24.33 ²¹³
26	4.954 ¹¹²	58.03 ¹⁹⁸	10.554 ¹⁵⁰	50.74 ²¹	42.49 ³⁷	21.54 ³²⁴	21.279 ²²²	26.46 ²¹⁸
Dez. 5	5.066 ⁷⁴	60.01 ¹⁹⁸	10.704 ¹¹⁰	50.95 ¹⁸	42.86 ²¹	24.58 ³⁰⁵	21.501 ¹⁵³	28.64 ²¹⁸
15	5.140 ³⁵	61.99 ¹⁹⁰	10.814 ⁶⁸	51.13 ¹⁷	43.07 ⁵	27.63 ²⁹⁸	21.654 ⁷⁸	30.82 ²¹¹
25	5.175 ⁷	63.89 ¹⁷⁷	10.882 ²³	51.30 ¹⁵	43.12 ¹³	30.61 ²⁷⁹	21.732 ³	32.93 ¹⁹⁷
35	5.168	65.66	10.905	51.45	42.99	33.40	21.735	34.90
Mittl. Ort	1.142	76.31	6.076	33.68	30.87	8.28	14.829	12.20
sec δ , tg δ	1.033	—0.257	1.085	+0.421	4.082	+3.957	1.818	+1.519
a, a'	+2.8	+7.3	+3.6	+7.0	+8.0	+6.9	+5.0	+6.7
b, b'	—0.01	—0.93	+0.01	—0.94	+0.09	—0.94	+0.03	—0.94

Obere Kulmination Greenwich

53*

Tag	178) ♄ Camelop.		180) π ⁵ Orionis		181) ι Aurigae		183) ε Aurigae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	4 ^h 47 ^m	+66° 13'	4 ^h 50 ^m	+2° 19'	4 ^h 52 ^m	+33° 3'	4 ^h 57 ^m	+43° 43'
Jan. 0	12.60 ⁸	55.93 ²³³	40.228 ²	50.28 ⁹³	30.790 ⁵	41.38 ⁷⁰	1.933 ²	34.65 ¹²⁹
10	12.52 ¹⁹	58.26 ²⁰⁶	40.226 ⁴³	49.35 ⁸²	30.795 ⁴⁵	42.08 ⁶²	1.935 ⁵⁶	35.94 ¹¹⁴
20	12.33 ²⁸	60.32 ¹⁷¹	40.183 ⁸¹	48.53 ⁷⁰	30.750 ⁹¹	42.70 ⁵⁰	1.879 ¹¹¹	37.08 ⁹⁵
30	12.05 ³⁵	62.03 ¹²⁹	40.102 ¹¹³	47.83 ⁵⁶	30.659 ¹³²	43.20 ³⁶	1.768 ¹⁵⁷	38.03 ⁷³
Feb. 9	11.70 ⁴¹	63.32 ⁸⁴	39.989 ¹³⁹	47.27 ⁴²	30.527 ¹⁶³	43.56 ¹⁹	1.611 ¹⁹⁵	38.76 ⁴⁶
19	11.29 ⁴⁴	64.16 ³⁵	39.850 ¹⁵⁷	46.85 ²⁷	30.364 ¹⁸⁴	43.75 ¹	1.416 ²¹⁹	39.22 ¹⁷
März 1	10.85 ⁴⁵	64.51 ¹⁵	39.693 ¹⁶⁵	46.58 ¹²	30.180 ¹⁹⁴	43.76 ¹⁷	1.197 ²³⁰	39.39 ¹²
11	10.40 ⁴⁴	64.36 ⁶³	39.528 ¹⁶²	46.46 ³	29.986 ¹⁹¹	43.59 ³³	0.967 ²²⁸	39.27 ³⁹
21	9.96 ⁴¹	63.73 ¹⁰⁸	39.366 ¹⁴⁹	46.49 ¹⁹	29.795 ¹⁷⁵	43.26 ⁴⁹	0.739 ²¹⁰	38.88 ⁶⁵
31	9.55 ³⁵	62.65 ¹⁴⁷	39.217 ¹²⁹	46.68 ³⁵	29.620 ¹⁴⁹	42.77 ⁶⁰	0.529 ¹⁸¹	38.23 ⁸⁷
Apr. 10	9.20 ²⁷	61.18 ¹⁷⁹	39.088 ⁹⁸	47.03 ⁵²	29.471 ¹¹²	42.17 ⁶⁹	0.348 ¹³⁹	37.36 ¹⁰⁵
20	8.93 ¹⁹	59.39 ²⁰⁴	38.990 ⁶²	47.55 ⁶⁹	29.359 ⁶⁸	41.48 ⁷³	0.209 ⁹⁰	36.31 ¹¹⁷
30	8.74 ⁹	57.35 ²²¹	38.928 ²⁰	48.24 ⁸⁶	29.291 ¹⁹	40.75 ⁷³	0.119 ³³	35.14 ¹²⁴
Mai 10	8.65 ¹	55.14 ²²⁹	38.908 ²³	49.10 ¹⁰²	29.272 ³³	40.02 ⁶⁸	0.086 ²⁶	33.90 ¹²⁴
20	8.66 ¹²	52.85 ²²⁹	38.931 ⁶⁷	50.12 ¹¹⁸	29.305 ⁸⁷	39.34 ⁶¹	0.112 ⁸⁷	32.66 ¹²¹
30	8.78 ²²	50.56 ²²¹	38.998 ¹¹¹	51.30 ¹³⁰	29.392 ¹³⁷	38.73 ⁵⁰	0.199 ¹⁴⁶	31.45 ¹¹²
Juni 9	9.00 ³²	48.35 ²⁰⁶	39.109 ¹⁵²	52.60 ¹⁴¹	29.529 ¹⁸⁶	38.23 ³⁷	0.345 ²⁰¹	30.33 ⁹⁹
19	9.32 ⁴¹	46.29 ¹⁸⁷	39.261 ¹⁸⁸	54.01 ¹⁴⁹	29.715 ²²⁹	37.86 ²²	0.546 ²⁵²	29.34 ⁸⁴
29	9.73 ⁴⁸	44.42 ¹⁶¹	39.449 ²²⁰	55.50 ¹⁵¹	29.944 ²⁶⁷	37.64 ⁸	0.798 ²⁹⁶	28.50 ⁶⁷
Juli 9	10.21 ⁵⁵	42.81 ¹³²	39.669 ²⁴⁸	57.01 ¹⁵⁰	30.211 ²⁹⁹	37.56 ⁶	1.094 ³³³	27.83 ⁴⁷
19	10.76 ⁶⁰	41.49 ¹⁰⁰	39.917 ²⁶⁹	58.51 ¹⁴⁵	30.510 ³²⁴	37.62 ²¹	1.427 ³⁶⁴	27.36 ²⁷
29	11.36 ⁶⁴	40.49 ⁶⁶	40.186 ²⁸⁶	59.96 ¹³⁴	30.834 ³⁴²	37.83 ³³	1.791 ³⁸⁶	27.09 ⁸
Aug. 8	12.00 ⁶⁸	39.83 ³⁰	40.472 ²⁹⁶	61.30 ¹¹⁸	31.176 ³⁵⁴	38.16 ⁴⁴	2.177 ⁴⁰³	27.01 ¹¹
18	12.68 ⁷⁰	39.53 ⁵	40.768 ³⁰¹	62.48 ⁹⁹	31.530 ³⁶²	38.60 ⁵²	2.580 ⁴¹¹	27.12 ²⁹
28	13.38 ⁷⁰	39.58 ⁴⁰	41.069 ³⁰²	63.47 ⁷⁶	31.892 ³⁶³	39.12 ⁶⁰	2.991 ⁴¹⁵	27.41 ⁴⁶
Sept. 7	14.08 ⁶⁹	39.98 ⁷⁵	41.371 ²⁹⁸	64.23 ⁵⁰	32.255 ³⁵⁹	39.72 ⁶⁴	3.406 ⁴¹²	27.87 ⁶²
17	14.77 ⁶⁸	40.73 ¹⁰⁸	41.669 ²⁹²	64.73 ²⁴	32.614 ³⁵²	40.36 ⁶⁸	3.818 ⁴⁰⁴	28.49 ⁷⁵
27	15.45 ⁶⁶	41.81 ¹⁴⁰	41.961 ²⁸¹	64.97 ⁵	32.966 ³⁴⁰	41.04 ⁷¹	4.222 ³⁹³	29.24 ⁸⁸
Okt. 7	16.11 ⁶²	43.21 ¹⁶⁹	42.242 ²⁶⁷	64.92 ³¹	33.306 ³²⁵	41.75 ⁷²	4.615 ³⁷⁵	30.12 ¹⁰¹
17	16.73 ⁵⁷	44.90 ¹⁹⁶	42.509 ²⁴⁹	64.61 ⁵⁵	33.631 ³⁰⁶	42.47 ⁷⁴	4.990 ³⁵³	31.13 ¹¹¹
27	17.30 ⁵²	46.86 ²²⁰	42.758 ²²⁹	64.06 ⁷⁶	33.937 ²⁸¹	43.21 ⁷⁵	5.343 ³²⁵	32.24 ¹²¹
Nov. 6	17.82 ⁴⁵	49.06 ²³⁹	42.987 ²⁰³	63.30 ⁹²	34.218 ²⁵³	43.96 ⁷⁷	5.668 ²⁹²	33.45 ¹³⁰
16	18.27 ³⁷	51.45 ²⁵⁴	43.190 ¹⁷⁵	62.38 ¹⁰⁴	34.471 ²¹⁸	44.73 ⁷⁸	5.960 ²⁵³	34.75 ¹³⁶
26	18.64 ²⁸	53.99 ²⁶²	43.365 ¹⁴²	61.34 ¹¹⁰	34.689 ¹⁸⁰	45.51 ⁷⁹	6.213 ²⁰⁶	36.11 ¹⁴⁰
Dez. 5 ³	18.92 ¹⁹	56.61 ²⁶⁴	43.507 ¹⁰⁵	60.24 ¹¹¹	34.869 ¹³⁶	46.30 ⁷⁹	6.419 ¹⁵⁵	37.51 ¹⁴²
15	19.11 ⁸	59.25 ²⁵⁸	43.612 ⁶⁶	59.13 ¹⁰⁸	35.005 ⁸⁸	47.09 ⁷⁶	6.574 ⁹⁹	38.93 ¹⁴⁰
25	19.19 ²	61.83 ²⁴⁴	43.678 ²⁵	58.05 ¹⁰²	35.093 ³⁸	47.85 ⁷²	6.673 ³⁹	40.33 ¹³³
35	19.17	64.27	43.703	57.03	35.131	48.57	6.712	41.66
Mittl. Ort	10.60	40.98	39.340	44.19	29.838	30.57	0.811	22.57
sec δ, tg δ	2.481	+2.270	1.001	+0.041	1.193	+0.651	1.384	+0.956
a, a'	+6.0	+6.3	+3.1	+6.0	+3.9	+5.8	+4.3	+5.4
b, b'	+0.05	-0.95	0.00	-0.95	+0.01	-0.96	+0.02	-0.96

*) Bei Stern 183) lies Dez. 6

Tag	182) 10 Camelop.		184) 1 Tauri		185) 7 Aurigae		186) 8 Leporis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	4 ^h 57 ^m	+60° 20'	4 ^h 58 ^m	+21° 29'	5 ^h 1 ^m	+41° 8'	5 ^h 2 ^m	-22° 27'
Jan. 0	18.01	51.23 ²¹¹	59.083 ¹³	43.59 ⁷	41.463 ¹⁰	46.12 ¹¹⁶	33.523 ²³	42.36 ²⁰⁹
10	17.97 ¹²	53.34 ¹⁸⁹	59.096 ³²	43.66 ⁷	41.473 ⁴⁷	47.28 ¹⁰⁴	33.500 ⁶⁷	44.45 ¹⁸³
20	17.85 ¹⁹	55.23 ¹⁵⁹	59.064 ⁷⁵	43.73 ⁴	41.426 ⁹⁹	48.32 ⁸⁷	33.433 ¹⁰⁶	46.28 ¹⁵³
30	17.66 ²⁶	56.82 ¹²³	58.989 ¹¹²	43.77 ¹	41.327 ¹⁴⁵	49.19 ⁶⁷	33.327 ¹⁴¹	47.81 ¹¹⁹
Feb. 9	17.40 ³¹	58.05 ⁸³	58.877 ¹⁴³	43.78 ⁴	41.182 ¹⁸²	49.86 ⁴³	33.186 ¹⁶⁸	49.00 ⁸⁴
19	17.09 ³⁵	58.88 ³⁹	58.734 ¹⁶²	43.74 ⁸	41.000 ²⁰⁸	50.29 ¹⁸	33.018 ¹⁸⁸	49.84 ⁴⁷
März 1	16.74 ³⁶	59.27 ⁵	58.572 ¹⁷³	43.66 ¹⁴	40.792 ²¹⁹	50.47 ⁸	32.830 ¹⁹⁷	50.31 ⁹
11	16.38 ³⁵	59.22 ⁴⁹	58.399 ¹⁷²	43.52 ¹⁹	40.573 ²¹⁸	50.39 ³⁴	32.633 ¹⁹⁶	50.40 ²⁸
21	16.03 ³³	58.73 ⁹⁰	58.227 ¹⁵⁹	43.33 ²²	40.355 ²⁰²	50.05 ⁵⁸	32.437 ¹⁸⁵	50.12 ⁶⁵
31	15.70 ²⁸	57.83 ¹²⁵	58.068 ¹³⁶	43.11 ²⁴	40.153 ¹⁷⁵	49.47 ⁷⁷	32.252 ¹⁶⁴	49.47 ¹⁰⁰
April 10	15.42 ²³	56.58 ¹⁵⁶	57.932 ¹⁰⁴	42.87 ²³	39.978 ¹³⁵	48.70 ⁹³	32.088 ¹³⁵	48.47 ¹³³
20	15.19 ¹⁵	55.02 ¹⁷⁹	57.828 ⁶⁵	42.64 ¹⁹	39.843 ⁸⁹	47.77 ¹⁰⁵	31.953 ¹⁰⁰	47.14 ¹⁶⁵
30	15.04 ⁸	53.23 ¹⁹⁵	57.763 ²²	42.45 ¹³	39.754 ³⁵	46.72 ¹¹⁰	31.853 ⁵⁹	45.49 ¹⁹¹
Mai 10	14.96 ¹	51.28 ²⁰³	57.741 ²⁶	42.32 ⁵	39.719 ²²	45.62 ¹¹¹	31.794 ¹⁵	43.58 ²¹⁶
20	14.97 ⁹	49.25 ²⁰³	57.767 ⁷³	42.27 ⁶	39.741 ⁸⁰	44.51 ¹⁰⁸	31.779 ³¹	41.42 ²³⁵
30	15.06 ¹⁸	47.22 ¹⁹⁸	57.840 ¹¹⁹	42.33 ¹⁶	39.821 ¹³⁷	43.43 ⁹⁹	31.810 ⁷⁷	39.07 ²⁵⁰
Juni 9	15.24 ²⁶	45.24 ¹⁸⁵	57.959 ¹⁶⁴	42.49 ²⁸	39.958 ¹⁹⁰	42.44 ⁸⁷	31.887 ¹²⁰	36.57 ²⁵⁸
19	15.50 ³³	43.39 ¹⁶⁸	58.123 ²⁰³	42.77 ⁴⁰	40.148 ²⁴⁰	41.57 ⁷³	32.007 ¹⁶⁰	33.99 ²⁶¹
29	15.83 ³⁹	41.71 ¹⁴⁶	58.326 ²³⁸	43.17 ⁴⁹	40.388 ²⁸²	40.84 ⁵⁷	32.167 ¹⁹⁸	31.38 ²⁵⁵
Juli 9	16.22 ⁴⁵	40.25 ¹²⁰	58.564 ²⁶⁷	43.66 ⁵⁸	40.670 ³¹⁸	40.27 ³⁹	32.365 ²²⁹	28.83 ²⁴³
19	16.67 ⁵⁰	39.05 ⁹²	58.831 ²⁹⁰	44.24 ⁶⁴	40.988 ³⁴⁸	39.88 ²¹	32.594 ²⁵⁶	26.40 ²²⁴
29	17.17 ⁵³	38.13 ⁶²	59.121 ³⁰⁸	44.88 ⁶⁸	41.336 ³⁷⁰	39.67 ⁴	32.850 ²⁷⁷	24.16 ¹⁹⁷
Aug. 8	17.70 ⁵⁶	37.51 ³¹	59.429 ³²⁰	45.56 ⁶⁸	41.706 ³⁸⁷	39.63 ¹²	33.127 ²⁹³	22.19 ¹⁶⁵
18	18.26 ⁵⁸	37.20 ¹	59.749 ³²⁷	46.24 ⁶⁷	42.093 ³⁹⁶	39.75 ²⁹	33.420 ³⁰²	20.54 ¹²⁶
28	18.84 ⁵⁸	37.19 ³⁰	60.076 ³²⁸	46.91 ⁶²	42.489 ³⁹⁹	40.04 ⁴³	33.722 ³⁰⁷	19.28 ⁸²
Sept. 7	19.42 ⁵⁸	37.49 ⁶¹	60.404 ³²⁷	47.53 ⁵⁶	42.888 ³⁹⁸	40.47 ⁵⁵	34.029 ³⁰⁶	18.46 ³⁵
17	20.00 ⁵⁷	38.10 ⁸⁹	60.731 ³²⁰	48.09 ⁴⁷	43.286 ³⁹¹	41.02 ⁶⁷	34.335 ³⁰⁰	18.11 ¹²
27	20.57 ⁵⁵	38.99 ¹¹⁷	61.051 ³¹⁰	48.56 ³⁸	43.677 ³⁸¹	41.69 ⁷⁸	34.635 ²⁹⁰	18.23 ⁶²
Okt. 7	21.12 ⁵³	40.16 ¹⁴³	61.361 ²⁹⁸	48.94 ³⁰	44.058 ³⁶⁵	42.47 ⁸⁸	34.925 ²⁷⁵	18.85 ¹⁰⁷
17	21.65 ⁴⁹	41.59 ¹⁶⁷	61.659 ²⁸¹	49.24 ²¹	44.423 ³⁴⁴	43.35 ⁹⁷	35.200 ²⁵⁶	19.92 ¹⁴⁸
27	22.14 ⁴⁵	43.26 ¹⁸⁸	61.940 ²⁶⁰	49.45 ¹⁵	44.767 ³¹⁹	44.32 ¹⁰⁵	35.456 ²³²	21.40 ¹⁸⁵
Nov. 6	22.59 ⁴⁰	45.14 ²⁰⁶	62.200 ²³⁵	49.60 ⁹	45.086 ²⁸⁸	45.37 ¹¹³	35.688 ²⁰³	23.25 ²¹²
16	22.99 ³⁴	47.20 ²²¹	62.435 ²⁰⁴	49.69 ⁶	45.374 ²⁵⁰	46.50 ¹¹⁹	35.891 ¹⁷¹	25.37 ²³³
26	23.33 ²⁶	49.41 ²³⁰	62.639 ¹⁷¹	49.75 ⁴	45.624 ²⁰⁶	47.69 ¹²³	36.062 ¹³⁴	27.70 ²⁴⁴
Dez. 6	23.59 ¹⁹	51.71 ²³³	62.810 ¹³¹	49.79 ⁴	45.830 ¹⁵⁸	48.92 ¹²⁵	36.196 ⁹³	30.14 ²⁴⁶
15	23.78 ¹¹	54.04 ²³⁰	62.941 ⁸⁹	49.83 ⁴	45.988 ¹⁰³	50.17 ¹²³	36.289 ⁵⁰	32.60 ²³⁹
25	23.89 ²	56.34 ²¹⁹	63.030 ⁴³	49.87 ⁵	46.091 ⁴⁸	51.40 ¹¹⁹	36.339 ⁵	34.99 ²²³
35	23.91	58.53	63.073	49.92	46.139	52.59	36.344	37.22
Mittl. Ort	16.32	37.34	58.179	34.56	40.364	34.53	32.380	45.34
see δ, 1g δ	2.021	+1.756	1.075	+0.394	1.328	+0.874	1.082	-0.413
a, a'	+5.3	+5.4	+3.6	+5.3	+4.2	+5.0	+2.5	+5.0
b, b'	+0.03	-0.96	+0.01	-0.96	+0.01	-0.97	-0.01	-0.97

Tag	188) β Eridani		192) μ Aurigae		191) 19 H. Camelop.		194) β Orionis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	5 ^h 4 ^m	—5° 10'	5 ^h 8 ^m	+38° 24'	5 ^h 11 ^m	+79° 9'	5 ^h 11 ^m	—8° 16'
Jan. 0	28.373	22.47 ¹³⁵	43.314	27.18 ¹⁰²	13.98 ¹⁸	36.75 ²⁹²	14.246 ⁶	43.32 ¹⁵³
10	28.375 ²	23.82 ¹¹⁹	43.334 ²⁰	28.20 ⁹³	13.80 ⁴¹	39.67 ²⁶⁷	14.252 ³⁷	44.85 ¹³⁵
20	28.336 ³⁹	25.01 ¹⁰⁰	43.298 ⁸⁷	29.13 ⁷⁹	13.39 ⁶¹	42.34 ²³¹	14.215 ⁷⁸	46.20 ¹¹³
30	28.258 ⁷⁸	26.01 ⁸⁰	43.211 ¹³³	29.92 ⁶²	12.78 ⁷⁷	44.65 ¹⁸⁷	14.137 ¹¹³	47.33 ⁹¹
Feb. 9	28.145 ¹¹³	26.81 ⁵⁸	43.078 ¹⁷⁰	30.54 ⁴²	12.01 ⁹⁰	46.52 ¹³⁷	14.024 ¹⁴¹	48.24 ⁶⁷
19	28.005 ¹⁶⁰	27.39 ³⁶	42.908 ¹⁹⁶	30.96 ¹⁹	11.11 ¹⁰⁰	47.89 ⁸¹	13.883 ¹⁶²	48.91 ⁴¹
März 1	27.845 ¹⁷⁰	27.75 ¹⁴	42.712 ²⁰⁹	31.15 ⁴	10.11 ¹⁰⁴	48.70 ²³	13.721 ¹⁷³	49.32 ¹⁶
11	27.675 ¹⁷⁰	27.89 ⁹	42.503 ²⁰⁹	31.11 ²⁶	9.07 ¹⁰³	48.93 ³⁴	13.548 ¹⁷³	49.48 ¹⁰
21	27.505 ¹⁵⁹	27.80 ³¹	42.294 ¹⁹⁶	30.85 ⁴⁸	8.04 ⁹⁸	48.59 ⁸⁹	13.375 ¹⁶⁴	49.38 ³⁵
31	27.346 ¹⁴⁰	27.49 ⁵⁴	42.098 ¹⁷¹	30.37 ⁶⁶	7.06 ⁸⁸	47.70 ¹⁴⁰	13.211 ¹⁴⁶	49.03 ⁶⁰
Apr. 10	27.206 ¹¹¹	26.95 ⁷⁶	41.927 ¹³⁴	29.71 ⁸⁰	6.18 ⁷⁵	46.30 ¹⁸⁴	13.065 ¹¹⁸	48.43 ⁸⁴
20	27.095 ⁷⁷	26.19 ⁹⁷	41.793 ⁹⁰	28.91 ⁹¹	5.43 ⁵⁷	44.46 ²²¹	12.947 ⁸⁵	47.59 ¹⁰⁸
30	27.018 ³⁸	25.22 ¹¹⁸	41.703 ³⁹	28.00 ⁹⁵	4.86 ³⁹	42.25 ²⁴⁸	12.862 ⁴⁶	46.51 ¹²⁹
Mai 10	26.980 ⁵	24.04 ¹³⁷	41.664 ¹⁵	27.05 ⁹⁷	4.47 ¹⁸	39.77 ²⁶⁶	12.816 ⁴	45.22 ¹⁵⁰
20	26.985 ⁴⁸	22.67 ¹⁵³	41.679 ⁷¹	26.08 ⁹³	4.29 ⁴	37.11 ²⁷⁵	12.812 ⁴⁰	43.72 ¹⁶⁶
30	27.033 ⁹¹	21.14 ¹⁶⁶	41.750 ¹²⁵	25.15 ⁸⁵	4.33 ²⁴	34.36 ²⁷⁵	12.852 ⁸³	42.06 ¹⁸¹
Juni 9	27.124 ¹³³	19.48 ¹⁷⁷	41.875 ¹⁷⁷	24.30 ⁷⁴	4.57 ⁴⁵	31.61 ²⁶⁸	12.935 ¹²³	40.25 ¹⁹⁰
19	27.257 ¹⁷⁰	17.71 ¹⁸³	42.052 ²²⁴	23.56 ⁶²	5.02 ⁶⁵	28.93 ²⁵²	13.058 ¹⁶²	38.35 ¹⁹⁶
29	27.427 ²⁰³	15.88 ¹⁸³	42.276 ²⁶⁷	22.94 ⁴⁷	5.67 ⁸³	26.41 ²²⁹	13.220 ¹⁹⁶	36.39 ¹⁹⁶
Juli 9	27.630 ²³³	14.05 ¹⁷⁸	42.543 ³⁰²	22.47 ³²	6.50 ⁹⁸	24.12 ²⁰¹	13.416 ²²⁶	34.43 ¹⁹⁰
19	27.863 ²⁵⁶	12.27 ¹⁶⁸	42.845 ³³¹	22.15 ¹⁶	7.48 ¹¹³	22.11 ¹⁶⁹	13.642 ²⁵⁰	32.53 ¹⁷⁹
29	28.119 ²⁷³	10.59 ¹⁵³	43.176 ³⁵⁴	21.99 ²	8.61 ¹²³	20.42 ¹³³	13.892 ²⁶⁹	30.74 ¹⁶²
Aug. 8	28.392 ²⁸⁷	9.06 ¹³²	43.530 ³⁷⁰	21.97 ¹³	9.84 ¹³²	19.09 ⁹³	14.161 ²⁸³	29.12 ¹³⁸
18	28.679 ²⁹⁵	7.74 ¹⁰⁶	43.900 ³⁸⁰	22.10 ²⁶	11.16 ¹³⁹	18.16 ⁵²	14.444 ²⁹³	27.74 ¹¹¹
28	28.974 ²⁹⁸	6.68 ⁷⁷	44.280 ³⁸⁵	22.36 ³⁸	12.55 ¹⁴²	17.64 ¹⁰	14.737 ²⁹⁷	26.63 ⁷⁸
Sept. 7	29.272 ²⁹⁷	5.91 ⁴⁴	44.665 ³⁸⁴	22.74 ⁴⁷	13.97 ¹⁴⁴	17.54 ³³	15.034 ²⁹⁷	25.85 ⁴⁴
17	29.569 ²⁹²	5.47 ¹⁰	45.049 ³⁸⁰	23.21 ⁵⁷	15.41 ¹⁴³	17.87 ⁷⁶	15.331 ²⁹⁴	25.41 ⁶
27	29.861 ²⁸³	5.37 ²⁵	45.429 ³⁷⁰	23.78 ⁶⁵	16.84 ¹³⁹	18.63 ¹¹⁷	15.625 ²⁸⁵	25.35 ³²
Okt. 7	30.144 ²⁷¹	5.62 ⁵⁸	45.799 ³⁵⁶	24.43 ⁷³	18.23 ¹³²	19.80 ¹⁵⁷	15.910 ²⁷⁴	25.67 ⁶⁷
17	30.415 ²⁵⁴	6.20 ⁸⁸	46.155 ³³⁸	25.16 ⁸⁰	19.55 ¹²³	21.37 ¹⁹⁴	16.184 ²⁵⁸	26.34 ⁹⁹
27	30.669 ²³⁴	7.08 ¹¹⁴	46.493 ³¹⁵	25.96 ⁸⁶	20.78 ¹¹²	23.31 ²²⁹	16.442 ²³⁹	27.33 ¹²⁹
Nov. 6	30.903 ²¹⁰	8.22 ¹³⁵	46.808 ²⁸⁵	26.82 ⁹³	21.90 ⁹⁸	25.60 ²⁵⁸	16.681 ²¹⁴	28.62 ¹⁵¹
16	31.113 ¹⁸¹	9.57 ¹⁴⁹	47.093 ²⁵⁰	27.75 ⁹⁹	22.88 ⁸¹	28.18 ²⁸³	16.895 ¹⁸⁶	30.13 ¹⁶⁷
26	31.294 ¹⁴⁹	11.06 ¹⁵⁸	47.343 ²¹⁰	28.74 ¹⁰⁴	23.69 ⁶²	31.01 ³⁰¹	17.081 ¹⁵³	31.80 ¹⁷⁶
Dez. 6	31.443 ¹¹²	12.64 ¹⁵⁹	47.553 ¹⁶²	29.78 ¹⁰⁶	24.31 ⁴¹	34.02 ³¹⁰	17.234 ¹¹⁶	33.56 ¹⁷⁸
15	31.555 ⁷²	14.23 ¹⁵⁶	47.715 ¹¹¹	30.84 ¹⁰⁶	24.72 ¹⁸	37.12 ³¹¹	17.350 ⁷⁵	35.34 ¹⁷⁴
25	31.627 ³⁰	15.79 ¹⁴⁶	47.826 ⁵⁶	31.90 ¹⁰³	24.90 ⁵	40.23 ³⁰⁰	17.425 ³³	37.08 ¹⁶⁴
35	31.657	17.25	47.882	32.93	24.85	43.23	17.458	38.72
Mittl. Ort	27.410	27.75	42.224	16.17	8.86	22.37	13.248	48.38
sec δ , tg δ	1.004	—0.091	1.276	+0.793	5.315	+5.220	1.011	—0.146
a, a'	+3.0	+4.8	+4.1	+4.4	+9.9	+4.2	+2.9	+4.2
b, b'	0.00	—0.97	+0.01	—0.98	+0.07	—0.98	0.00	—0.98

Tag	193) α Aurigae		196) δ Doradus		201) γ Orionis		202) β Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$5^h 11^m$	$+45^\circ 55'$	$5^h 13^m$	$-67^\circ 15'$	$5^h 21^m$	$+6^\circ 17'$	$5^h 21^m$	$+28^\circ 33'$
Jan. 0	36.562 ¹⁸	58.76 ¹⁴²	51.90 ²⁷	46.13 ³⁰⁰	26.710 ²⁷	25.44 ⁸¹	56.746 ³⁶	12.44 ⁴⁶
10	36.580 ⁴³	60.18 ¹²⁹	51.63 ³⁵	49.13 ²⁶³	26.737 ¹⁷	24.63 ⁷¹	56.782 ¹⁴	12.90 ⁴⁴
20	36.537 ¹⁰³	61.47 ¹¹²	51.28 ⁴⁴	51.76 ²¹⁹	26.720 ⁵⁹	23.92 ⁵⁹	56.768 ⁶³	13.34 ⁴⁰
30	36.434 ¹⁵⁴	62.59 ⁸⁹	50.84 ⁵¹	53.95 ¹⁶⁹	26.661 ⁹⁷	23.33 ⁴⁸	56.705 ¹⁰⁶	13.74 ³²
Feb. 9	36.280 ¹⁹⁵	63.48 ⁶²	50.33 ⁵⁶	55.64 ¹¹⁶	26.564 ¹²⁹	22.85 ³⁷	56.599 ¹⁴¹	14.06 ²³
19	36.085 ²²⁵	64.10 ³²	49.77 ⁵⁹	56.80 ⁶¹	26.435 ¹⁵⁰	22.48 ²⁵	56.458 ¹⁶⁸	14.29 ¹²
März 1	35.860 ²⁴⁰	64.42 ¹	49.18 ⁶¹	57.41 ⁵	26.285 ¹⁶⁴	22.23 ¹⁴	56.290 ¹⁸²	14.41 ¹
11	35.620 ²⁴¹	64.43 ²⁹	48.57 ⁶¹	57.46 ⁵⁰	26.121 ¹⁶⁶	22.09 ³	56.108 ¹⁸⁶	14.40 ¹³
21	35.379 ²²⁶	64.14 ⁵⁷	47.96 ⁵⁸	56.96 ¹⁰³	25.955 ¹⁵⁹	22.06 ⁹	55.922 ¹⁷⁶	14.27 ²⁵
31	35.153 ¹⁹⁹	63.57 ⁸³	47.38 ⁵⁵	55.93 ¹⁵³	25.796 ¹⁴¹	22.15 ²¹	55.746 ¹⁵⁷	14.02 ³⁵
Apr. 10	34.954 ¹⁵⁹	62.74 ¹⁰⁴	46.83 ⁴⁹	54.40 ²⁰⁰	25.655 ¹¹⁴	22.36 ³³	55.589 ¹²⁵	13.67 ⁴¹
20	34.795 ¹⁰⁹	61.70 ¹²⁰	46.34 ⁴³	52.40 ²⁴¹	25.541 ⁸¹	22.69 ⁴⁷	55.464 ⁸⁷	13.26 ⁴⁵
30	34.686 ⁵³	60.50 ¹³⁰	45.91 ³⁵	49.99 ²⁷⁸	25.460 ⁴³	23.16 ⁶⁰	55.377 ⁴³	12.81 ⁴⁷
Mai 10	34.633 ⁸	59.20 ¹³⁵	45.56 ²⁶	47.21 ³⁰⁷	25.417 ¹	23.76 ⁷⁴	55.334 ⁴	12.34 ⁴⁴
20	34.641 ⁶⁹	57.85 ¹³⁴	45.30 ¹⁷	44.14 ³³⁰	25.416 ⁴³	24.50 ⁸⁷	55.338 ⁵⁴	11.90 ³⁹
30	34.710 ¹³¹	56.51 ¹²⁹	45.13 ⁷	40.84 ³⁴⁵	25.459 ⁸⁶	25.37 ⁹⁹	55.392 ¹⁰³	11.51 ³¹
Juni 9	34.841 ¹⁸⁸	55.22 ¹¹⁹	45.06 ³	37.39 ³⁵²	25.545 ¹²⁷	26.36 ¹⁰⁹	55.495 ¹⁴⁹	11.20 ²³
19	35.029 ²⁴²	54.03 ¹⁰⁶	45.09 ¹³	33.87 ³⁵⁰	25.672 ¹⁶⁵	27.45 ¹¹⁶	55.644 ¹⁹²	10.97 ¹²
29	35.271 ²⁸⁹	52.97 ⁸⁹	45.22 ²²	30.37 ³³⁷	25.837 ²⁰⁰	28.61 ¹²⁰	55.836 ²³⁰	10.85 ²
Juli 9	35.560 ³³⁰	52.08 ⁷¹	45.44 ³¹	27.00 ³¹⁷	26.037 ²²⁹	29.81 ¹²¹	56.066 ²⁶³	10.83 ⁷
19	35.890 ³⁶⁴	51.37 ⁵²	45.75 ³⁹	23.83 ²⁸⁶	26.266 ²⁵³	31.02 ¹¹⁸	56.329 ²⁹¹	10.90 ¹⁷
29	36.254 ³⁹⁰	50.85 ³³	46.14 ⁴⁶	20.97 ²⁴⁷	26.519 ²⁷³	32.20 ¹¹¹	56.620 ³¹²	11.07 ²⁴
Aug. 8	36.644 ⁴⁰⁹	50.52 ¹³	46.60 ⁵¹	18.50 ²⁰⁰	26.792 ²⁸⁷	33.31 ⁹⁹	56.932 ³²⁸	11.31 ³⁰
18	37.053 ⁴²²	50.39 ⁷	47.11 ⁵⁶	16.50 ¹⁴⁵	27.079 ²⁹⁷	34.30 ⁸³	57.260 ³³⁹	11.61 ³⁴
28	37.475 ⁴²⁸	50.46 ²⁴	47.67 ⁵⁸	15.05 ⁸⁶	27.376 ³⁰²	35.13 ⁶³	57.599 ³⁴⁵	11.95 ³⁶
Sept. 7	37.903 ⁴²⁹	50.70 ⁴²	48.25 ⁶⁰	14.19 ²²	27.678 ³⁰³	35.76 ⁴²	57.944 ³⁴⁷	12.31 ³⁶
17	38.332 ⁴²⁴	51.12 ⁵⁹	48.85 ⁵⁹	13.97 ⁴³	27.981 ³⁰¹	36.18 ¹⁹	58.291 ³⁴⁴	12.67 ³⁵
27	38.756 ⁴¹⁴	51.71 ⁷⁴	49.44 ⁵⁷	14.40 ¹⁰⁸	28.282 ²⁹⁵	36.37 ⁵	58.635 ³³⁷	13.02 ³⁴
Okt. 7	39.170 ⁴⁰⁰	52.45 ⁸⁸	50.01 ⁵²	15.48 ¹⁶⁹	28.577 ²⁸⁶	36.32 ²⁹	58.972 ³²⁸	13.36 ³²
17	39.570 ³⁷⁹	53.33 ¹⁰³	50.53 ⁴⁷	17.17 ²²⁴	28.863 ²⁷³	36.03 ⁴⁹	59.300 ³¹³	13.68 ³²
27	39.949 ³⁵²	54.36 ¹¹⁵	51.00 ⁴⁰	19.41 ²⁷²	29.136 ²⁵⁶	35.54 ⁶⁸	59.613 ²⁹⁵	14.00 ³¹
Nov. 6	40.301 ³¹⁹	55.51 ¹²⁷	51.40 ³²	22.13 ³¹¹	29.392 ²³³	34.86 ⁸²	59.908 ²⁷⁰	14.31 ³³
16	40.620 ²⁷⁹	56.78 ¹³⁸	51.72 ²²	25.24 ³³⁷	29.625 ²⁰⁷	34.04 ⁹²	60.178 ²⁴¹	14.64 ³⁴
26	40.899 ²³³	58.16 ¹⁴⁴	51.94 ¹²	28.61 ³⁵²	29.832 ¹⁷⁵	33.12 ⁹⁸	60.419 ²⁰⁵	14.98 ³⁷
Dez. 6	41.132 ¹⁷⁹	59.60 ¹⁴⁹	52.06 ¹	32.13 ³⁵³	30.007 ¹³⁹	32.14 ⁹⁸	60.624 ¹⁶⁴	15.35 ⁴⁰
15	41.311 ¹²¹	61.09 ¹⁵⁰	52.07 ¹⁰	35.66 ³⁴³	30.146 ⁹⁹	31.16 ⁹⁵	60.788 ¹¹⁸	15.75 ⁴²
25	41.432 ⁵⁹	62.59 ¹⁴⁵	51.97 ²⁰	39.09 ³²²	30.245 ⁵⁵	30.21 ⁸⁸	60.906 ⁶⁹	16.17 ⁴⁴
35	41.491	64.04	51.77	42.31	30.300	29.33	60.975	16.61
Mittl. Ort	35.314	47.01	48.33	46.55	25.759	18.47	55.721	2.94
sec δ , tg δ	1.438	+1.033	2.587	-2.386	1.006	+0.110	1.138	+0.544
a, a'	+4.4	+4.2	-0.1	+4.0	+3.2	+3.4	+3.8	+3.3
b, b'	+0.01	-0.98	-0.03	-0.98	0.00	-0.99	+0.01	-0.99

Tag	203) 17 Camelop.		206) 6 Orionis		207) α Leporis		205) Grb 966	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	5 ^h 23 ^m	+63° 0'	5 ^h 28 ^m	—0° 20'	5 ^h 29 ^m	—17° 51'	5 ^h 30 ^m	+75° 0'
Jan. 0	40.93	56.06	29.810	49.67	42.295	69.31	33.18	18.70
10	40.93	58.37	29.838	50.86	42.304	71.35	33.15	21.53
20	40.85	60.51	29.822	51.91	42.267	73.18	32.94	24.17
30	40.67	62.39	29.764	52.80	42.188	74.75	32.59	26.51
Feb. 9	40.41	63.94	29.668	53.52	42.071	76.02	32.10	28.46
19	40.09	65.11	29.540	54.07	41.922	76.97	31.49	29.97
März 1	39.73	65.84	29.389	54.44	41.750	77.59	30.81	30.96
11	39.34	66.11	29.223	54.62	41.564	77.81	30.09	31.41
21	38.94	65.92	29.054	54.62	41.374	77.81	29.35	31.32
31	38.56	65.29	28.892	54.44	41.190	77.42	28.64	30.69
Apr. 10	38.22	64.25	28.746	54.09	41.023	76.70	27.98	29.55
20	37.93	62.85	28.625	53.55	40.881	75.67	27.42	27.97
30	37.72	61.15	28.536	52.84	40.770	74.35	26.97	26.01
Mai 10	37.58	59.23	28.484	51.95	40.697	72.76	26.66	23.76
20	37.53	57.16	28.473	50.89	40.666	70.92	26.49	21.29
30	37.58	55.02	28.505	49.69	40.678	68.89	26.48	18.69
Juni 9	37.71	52.87	28.579	48.36	40.733	66.69	26.62	16.05
19	37.93	50.78	28.694	46.93	40.830	64.38	26.91	13.45
29	38.24	48.82	28.846	45.43	40.968	62.03	27.35	10.96
Juli 9	38.62	47.03	29.034	43.90	41.143	59.68	27.92	8.65
19	39.06	45.46	29.252	42.39	41.350	57.41	28.61	6.56
29	39.56	44.14	29.494	40.95	41.585	55.31	29.41	4.75
Aug. 8	40.11	43.10	29.757	39.62	41.843	53.42	30.29	3.28
18	40.69	42.36	30.036	38.47	42.119	51.80	31.25	2.15
28	41.30	41.93	30.325	37.52	42.408	50.53	32.26	1.39
Sept. 7	41.93	41.81	30.621	36.83	42.705	49.64	33.30	1.02
17	42.56	42.00	30.920	36.41	43.006	49.19	34.37	1.04
27	43.19	42.51	31.217	36.29	43.306	49.18	35.43	1.47
Okt. 7	43.81	43.34	31.509	36.47	43.601	49.63	36.48	2.29
17	44.41	44.46	31.793	36.95	43.886	50.52	37.50	3.50
27	44.98	45.86	32.065	37.70	44.157	51.82	38.46	5.09
Nov. 6	45.51	47.53	32.319	38.69	44.409	53.47	39.35	7.02
16	45.98	49.44	32.553	39.86	44.636	55.41	40.14	9.27
26	46.39	51.56	32.760	41.16	44.834	57.57	40.82	11.78
Dez. 6	46.73	53.83	32.936	42.54	44.999	59.86	41.36	14.51
15	46.98	56.20	33.075	43.94	45.124	62.19	41.76	17.37
25	47.15	58.60	33.174	45.30	45.207	64.48	42.01	20.28
35	47.22	60.96	33.231	46.58	45.245	66.66	42.08	23.16
Mittl. Ort	38.83	43.45	28.827	55.99	41.178	73.98	29.23	5.82
sec δ, tg δ	2.204	+1.964	1.000	—0.006	1.051	—0.322	3.864	+3.732
a, a'	+5.7	+3.2	+3.1	+2.7	+2.6	+2.6	+8.0	+2.6
b, b'	+0.02	—0.99	0.00	—0.99	0.00	—0.99	+0.03	—0.99

Tag	209) ι Orionis		210) ε Orionis		212) β Doradus		211) ζ Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	5 ^h 32 ^m	—5° 56'	5 ^h 32 ^m	—1° 14'	5 ^h 32 ^m	—62° 31'	5 ^h 33 ^m	+21° 6'
Jan. 0	4.458 ²⁶	68.54 ¹⁴⁹	43.677 ³¹	34.60 ¹²⁵	64.34 ¹⁷	62.90 ³¹⁸	32.212 ⁴⁶	15.59 ²
10	4.484 ¹⁹	70.03 ¹³³	43.708 ¹³	35.85 ¹¹¹	64.17 ²⁵	66.08 ²⁸⁴	32.258 ³	15.61 ⁶
20	4.465 ⁶⁰	71.36 ¹¹⁴	43.695 ⁵⁶	36.96 ⁹⁴	63.92 ³²	68.92 ²⁴⁴	32.255 ⁴⁹	15.67 ⁷
30	4.405 ⁹⁹	72.50 ⁹²	43.639 ⁹⁴	37.90 ⁷⁶	63.60 ³⁸	71.36 ¹⁹⁷	32.206 ⁹¹	15.74 ⁷
Feb. 9	4.306 ¹³¹	73.42 ⁶⁹	43.545 ¹²⁷	38.66 ⁵⁸	63.22 ⁴⁴	73.33 ¹⁴⁵	32.115 ¹²⁷	15.81 ⁶
19	4.175 ¹⁵⁴	74.11 ⁴⁷	43.418 ¹⁵¹	39.24 ³⁹	62.78 ⁴⁸	74.78 ⁹²	31.988 ¹⁵⁴	15.87 ³
März 1	4.021 ¹⁶⁹	74.58 ²³	43.267 ¹⁶⁵	39.63 ²⁰	62.30 ⁴⁹	75.70 ³⁷	31.834 ¹⁷⁰	15.90 ¹
11	3.852 ¹⁷³	74.81 ¹	43.102 ¹⁶⁹	39.83 ¹	61.81 ⁵⁰	76.07 ¹⁷	31.664 ¹⁷⁵	15.89 ⁶
21	3.679 ¹⁶⁷	74.80 ²⁴	42.933 ¹⁶⁴	39.84 ¹⁸	61.31 ⁴⁹	75.90 ⁷²	31.489 ¹⁶⁸	15.83 ⁹
31	3.512 ¹⁵²	74.56 ⁴⁷	42.769 ¹⁴⁸	39.66 ³⁷	60.82 ⁴⁶	75.18 ¹²³	31.321 ¹⁵¹	15.74 ¹³
Apr. 10	3.360 ¹²⁷	74.09 ⁶⁹	42.621 ¹²⁴	39.29 ⁵⁵	60.36 ⁴²	73.95 ¹⁷¹	31.170 ¹²⁵	15.61 ¹³
20	3.233 ⁹⁶	73.40 ⁹¹	42.497 ⁹²	38.74 ⁷⁴	59.94 ³⁷	72.24 ²¹⁵	31.045 ⁹¹	15.48 ¹²
30	3.137 ⁵⁹	72.49 ¹¹²	42.405 ⁵⁶	38.00 ⁹²	59.57 ³⁰	70.09 ²⁵⁵	30.954 ⁵⁰	15.36 ¹⁰
Mai 10	3.078 ¹⁹	71.37 ¹³⁰	42.349 ¹⁵	37.08 ¹⁰⁸	59.27 ²³	67.54 ²⁸⁸	30.904 ⁵	15.26 ⁴
20	3.059 ²³	70.07 ¹⁴⁸	42.334 ²⁷	36.00 ¹²⁴	59.04 ¹⁶	64.66 ³¹⁴	30.899 ⁴⁰	15.22 ²
30	3.082 ⁶⁶	68.59 ¹⁶¹	42.361 ⁷⁰	34.76 ¹³⁶	58.88 ⁸	61.52 ³³⁴	30.939 ⁸⁶	15.24 ¹⁰
Juni 9	3.148 ¹⁰⁷	66.98 ¹⁷²	42.431 ¹¹⁰	33.40 ¹⁴⁷	58.80 ¹	58.18 ³⁴⁴	31.025 ¹³⁰	15.34 ¹⁸
19	3.255 ¹⁴⁵	65.26 ¹⁷⁸	42.541 ¹⁴⁸	31.93 ¹⁵⁴	58.81 ⁹	54.74 ³⁴⁷	31.155 ¹⁷⁰	15.52 ²⁷
29	3.400 ¹⁸⁰	63.48 ¹⁸⁰	42.689 ¹⁸³	30.39 ¹⁵⁵	58.90 ¹⁷	51.27 ³⁴⁰	31.325 ²⁰⁷	15.79 ³⁴
Juli 9	3.580 ²¹⁰	61.68 ¹⁷⁶	42.872 ²¹⁴	28.84 ¹⁵⁴	59.07 ²⁵	47.87 ³²⁴	31.532 ²³⁹	16.13 ⁴⁰
19	3.790 ²³⁷	59.92 ¹⁶⁶	43.086 ²³⁸	27.30 ¹⁴⁷	59.32 ³¹	44.63 ²⁹⁷	31.771 ²⁶⁶	16.53 ⁴⁴
29	4.027 ²⁵⁷	58.26 ¹⁵²	43.324 ²⁶⁰	25.83 ¹³⁴	59.63 ³⁷	41.66 ²⁶²	32.037 ²⁸⁷	16.97 ⁴⁶
Aug. 8	4.284 ²⁷⁵	56.74 ¹³¹	43.584 ²⁷⁶	24.49 ¹¹⁸	60.00 ⁴³	39.04 ²¹⁸	32.324 ³⁰⁴	17.43 ⁴⁶
18	4.559 ²⁸⁶	55.43 ¹⁰⁵	43.860 ²⁸⁸	23.31 ⁹⁶	60.43 ⁴⁷	36.86 ¹⁶⁷	32.628 ³¹⁶	17.89 ⁴³
28	4.845 ²⁹³	54.38 ⁷⁶	44.148 ²⁹⁵	22.35 ⁷⁰	60.90 ⁴⁹	35.19 ¹⁰⁸	32.944 ³²³	18.32 ³⁸
Sept. 7	5.138 ²⁹⁷	53.62 ⁴³	44.443 ²⁹⁸	21.65 ⁴¹	61.39 ⁵¹	34.11 ⁴⁶	33.267 ³²⁶	18.70 ³⁰
17	5.435 ²⁹⁶	53.19 ⁸	44.741 ²⁹⁷	21.24 ¹¹	61.90 ⁵¹	33.65 ¹⁸	33.593 ³²⁶	19.00 ²²
27	5.731 ²⁹²	53.11 ²⁷	45.038 ²⁹³	21.13 ²¹	62.41 ⁵⁰	33.83 ⁸⁴	33.919 ³²²	19.22 ¹²
Okt. 7	6.023 ²⁸³	53.38 ⁶²	45.331 ²⁸⁵	21.34 ⁵¹	62.91 ⁴⁸	34.67 ¹⁴⁸	34.241 ³¹³	19.34 ⁴
17	6.306 ²⁷¹	54.00 ⁹⁴	45.616 ²⁷³	21.85 ⁷⁹	63.39 ⁴⁴	36.15 ²⁰⁵	34.554 ³⁰²	19.38 ³
27	6.577 ²⁵⁴	54.94 ¹²¹	45.889 ²⁵⁸	22.64 ¹⁰³	63.83 ³⁸	38.20 ²⁵⁷	34.856 ²⁸⁶	19.35 ⁹
Nov. 6	6.831 ²³³	56.15 ¹⁴⁴	46.147 ²³⁶	23.67 ¹²²	64.21 ³²	40.77 ²⁹⁹	35.142 ²⁶⁵	19.26 ¹³
16	7.064 ²⁰⁶	57.59 ¹⁶⁰	46.383 ²⁰⁹	24.89 ¹³⁷	64.53 ²⁴	43.76 ³³¹	35.407 ²³⁷	19.13 ¹⁵
26	7.270 ¹⁷⁵	59.19 ¹⁷⁰	46.592 ¹⁷⁹	26.26 ¹⁴⁴	64.77 ¹⁶	47.07 ³⁵⁰	35.644 ²⁰⁵	18.98 ¹³
Dez. 6	7.445 ¹³⁸	60.89 ¹⁷³	46.771 ¹⁴³	27.70 ¹⁴⁶	64.93 ⁷	50.57 ³⁵⁷	35.849 ¹⁶⁷	18.85 ¹¹
15	7.583 ⁹⁷	62.62 ¹⁶⁹	46.914 ¹⁰³	29.16 ¹⁴³	65.00 ²	54.14 ³⁵²	36.016 ¹²⁴	18.74 ⁷
25	7.680 ⁵⁵	64.31 ¹⁶⁰	47.017 ⁵⁹	30.59 ¹³⁵	64.98 ¹¹	57.66 ³³⁶	36.140 ⁷⁷	18.67 ³
35	7.735	65.91	47.076	31.94	64.87	61.02	36.217	18.64
Mittl. Ort	3.443	74.37	42.684	40.89	61.43	65.20	31.205	7.13
sec δ , tg δ	1.005	—0.104	1.000	—0.022	2.168	—1.924	1.072	+0.386
a, a'	+2.9	+2.4	+3.0	+2.4	+0.5	+2.4	+3.6	+2.3
b, b'	0.00	—0.99	0.00	—0.99	—0.02	—0.99	0.00	—0.99

Tag	215) α Columbae		216) α Aurigae		219) ζ Leporis		220) α Orionis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	5 ^h 37 ^m	—34° 6'	5 ^h 40 ^m	+49° 47'	5 ^h 43 ^m	—14° 50'	5 ^h 44 ^m	—9° 41'
Jan. 0	10.356 ¹⁵	32.50 ²⁷¹	34.720 ⁵⁶	63.70 ¹⁶⁸	50.800 ²⁷	41.89 ¹⁹⁸	30.070 ³³	28.62 ¹⁷³
10	10.341 ⁶⁶	35.21 ²⁴³	34.776 ¹⁵	65.38 ¹⁵⁹	50.827 ²⁰	43.87 ¹⁷⁸	30.103 ¹³	30.35 ¹⁵⁵
20	10.275 ¹¹³	37.64 ²¹⁰	34.761 ⁸²	66.97 ¹⁴⁴	50.807 ⁶⁴	45.65 ¹⁵⁴	30.090 ⁵⁶	31.90 ¹³⁴
30	10.162 ¹⁵⁶	39.74 ¹⁷²	34.679 ¹⁴²	68.41 ¹²³	50.743 ¹⁰⁴	47.19 ¹²⁶	30.034 ⁹⁶	33.24 ¹¹⁰
Feb. 9	10.006 ¹⁹¹	41.46 ¹³⁰	34.537 ¹⁹⁴	69.64 ⁹⁷	50.639 ¹³⁷	48.45 ⁹⁷	29.938 ¹²⁹	34.34 ⁸⁴
19	9.815 ²¹⁷	42.76 ⁸⁷	34.343 ²³²	70.61 ⁶⁶	50.502 ¹⁶³	49.42 ⁶⁷	29.809 ¹⁵⁵	35.18 ⁵⁸
März 1	9.598 ²³²	43.63 ⁴¹	34.111 ²⁵⁷	71.27 ³³	50.339 ¹⁷⁹	50.09 ³⁵	29.654 ¹⁷¹	35.76 ³¹
11	9.366 ²³⁸	44.04 ⁵	33.854 ²⁶⁵	71.60 ⁰	50.160 ¹⁸⁵	50.44 ³	29.483 ¹⁷⁸	36.07 ⁴
21	9.128 ²³¹	43.99 ⁴⁹	33.589 ²⁵⁷	71.60 ³⁴	49.975 ¹⁸⁰	50.47 ²⁸	29.305 ¹⁷³	36.11 ²³
31	8.897 ²¹⁵	43.50 ⁹²	33.332 ²³⁵	71.26 ⁶⁵	49.795 ¹⁶⁷	50.19 ⁵⁷	29.132 ¹⁶⁰	35.88 ⁴⁹
Apr. 10	8.682 ¹⁹⁰	42.58 ¹³³	33.097 ¹⁹⁸	70.61 ⁹³	49.628 ¹⁴⁴	49.62 ⁸⁷	28.972 ¹³⁷	35.39 ⁷⁴
20	8.492 ¹⁵⁶	41.25 ¹⁷¹	32.899 ¹⁵¹	69.68 ¹¹⁶	49.484 ¹¹⁴	48.75 ¹¹⁵	28.835 ¹⁰⁷	34.65 ⁹⁹
30	8.336 ¹¹⁷	39.54 ²⁰⁵	32.748 ⁹⁵	68.52 ¹³³	49.370 ⁷⁹	47.60 ¹⁴¹	28.728 ⁷²	33.66 ¹²²
Mai 10	8.219 ⁷²	37.49 ²³⁵	32.653 ³⁴	67.19 ¹⁴⁵	49.291 ⁴⁰	46.19 ¹⁶⁴	28.656 ³³	32.44 ¹⁴²
20	8.147 ²⁵	35.14 ²⁶⁰	32.619 ³⁰	65.74 ¹⁵²	49.251 ³	44.55 ¹⁸⁴	28.623 ⁹	31.02 ¹⁶¹
30	8.122 ²⁴	32.54 ²⁷⁸	32.649 ⁹⁵	64.22 ¹⁵³	49.254 ⁴⁶	42.71 ²⁰¹	28.632 ⁵¹	29.41 ¹⁷⁵
Juni 9	8.146 ⁷¹	29.76 ²⁹¹	32.744 ¹⁵⁷	62.69 ¹⁴⁸	49.300 ⁸⁷	40.70 ²¹²	28.683 ⁹²	27.66 ¹⁸⁷
19	8.217 ¹¹⁷	26.85 ²⁹⁵	32.901 ²¹⁷	61.21 ¹⁴⁰	49.387 ¹²⁷	38.58 ²¹⁸	28.775 ¹³⁰	25.79 ¹⁹³
29	8.334 ¹⁶¹	23.90 ²⁹¹	33.118 ²⁷⁰	59.81 ¹²⁷	49.514 ¹⁶³	36.40 ²¹⁸	28.905 ¹⁶⁶	23.86 ¹⁹⁴
Juli 9	8.495 ¹⁹⁹	20.99 ²⁸⁰	33.388 ³¹⁷	58.54 ¹¹³	49.677 ¹⁹⁷	34.22 ²¹²	29.071 ¹⁹⁸	21.92 ¹⁹⁰
19	8.694 ²³⁴	18.19 ²⁶¹	33.705 ³⁵⁸	57.41 ⁹⁵	49.874 ²²⁵	32.10 ²⁰⁰	29.269 ²²⁶	20.02 ¹⁸⁰
29	8.928 ²⁶⁴	15.58 ²³²	34.063 ³⁹¹	56.46 ⁷⁷	50.099 ²⁴⁸	30.10 ¹⁸¹	29.495 ²⁴⁹	18.22 ¹⁶³
Aug. 8	9.192 ²⁸⁸	13.26 ¹⁹⁶	34.454 ⁴¹⁷	55.69 ⁵⁷	50.347 ²⁶⁷	28.29 ¹⁵⁵	29.744 ²⁶⁶	16.59 ¹⁴¹
18	9.480 ³⁰⁷	11.30 ¹⁵³	34.871 ⁴³⁸	55.12 ³⁷	50.614 ²⁸²	26.74 ¹²⁴	30.010 ²⁸¹	15.18 ¹¹³
28	9.787 ³¹⁹	9.77 ¹⁰⁵	35.309 ⁴⁵¹	54.75 ¹⁶	50.896 ²⁹²	25.50 ⁸⁸	30.291 ²⁹⁰	14.05 ⁸⁰
Sept. 7	10.106 ³²⁶	8.72 ⁵¹	35.760 ⁴⁵⁹	54.59 ⁴	51.188 ²⁹⁸	24.62 ⁴⁷	30.581 ²⁹⁶	13.25 ⁴⁵
17	10.432 ³²⁷	8.21 ⁴	36.219 ⁴⁶⁰	54.63 ²³	51.486 ²⁹⁹	24.15 ⁶	30.877 ²⁹⁷	12.80 ⁷
27	10.759 ³²²	8.25 ⁶¹	36.679 ⁴⁵⁵	54.86 ⁴²	51.785 ²⁹⁶	24.09 ³⁸	31.174 ²⁹⁵	12.73 ³²
Okt. 7	11.081 ³¹¹	8.86 ¹¹⁶	37.134 ⁴⁴⁶	55.28 ⁶³	52.081 ²⁸⁹	24.47 ⁸¹	31.469 ²⁸⁸	13.05 ⁷⁰
17	11.392 ²⁹⁴	10.02 ¹⁶⁶	37.580 ⁴²⁹	55.91 ⁸³	52.370 ²⁷⁷	25.28 ¹¹⁹	31.757 ²⁷⁷	13.75 ¹⁰⁶
27	11.686 ²⁷⁰	11.68 ²¹²	38.009 ⁴⁰⁵	56.74 ¹⁰¹	52.647 ²⁶¹	26.47 ¹⁵⁴	32.034 ²⁶²	14.81 ¹³⁷
Nov. 6	11.956 ²⁴¹	13.80 ²⁴⁹	38.414 ³⁵⁴	57.75 ¹¹⁹	52.908 ²⁴⁰	28.01 ¹⁸³	32.296 ²⁴¹	16.18 ¹⁶²
16	12.197 ²⁰⁶	16.29 ²⁷⁷	38.788 ³³⁵	58.94 ¹³⁵	53.148 ²¹¹	29.84 ²⁰⁴	32.537 ²¹⁴	17.80 ¹⁸¹
26	12.403 ¹⁶⁴	19.06 ²⁹⁵	39.123 ²⁸⁷	60.29 ¹⁴⁹	53.359 ¹⁸⁰	31.88 ²¹⁸	32.751 ¹⁸⁴	19.61 ¹⁹²
Dez. 6	12.567 ¹¹⁹	22.01 ³⁰¹	39.410 ²³¹	61.78 ¹⁶⁰	53.539 ¹⁴²	34.06 ²²²	32.935 ¹⁴⁷	21.53 ¹⁹⁷
16	12.686 ¹⁶	25.02 ²⁹⁹	39.641 ¹⁶⁸	63.38 ¹⁶⁶	53.681 ¹⁰⁰	36.28 ²²⁰	33.082 ¹⁰⁶	23.50 ¹⁹³
25	12.755 ¹⁷	28.01 ²⁸⁶	39.809 ¹⁰⁰	65.04 ¹⁶⁷	53.781 ⁵⁶	38.48 ²¹⁰	33.188 ⁶²	25.43 ¹⁸⁵
35	12.772	30.87	39.909	66.71	53.837	40.58	33.250	27.28
Mittl. Ort	8.957	36.34	33.212	53.02	49.703	47.32	29.015	34.44
see 8, tg 8	1.208	—0.677	1.549	+1.183	1.035	—0.265	1.014	—0.171
a, a'	+2.2	+2.0	+4.6	+1.7	+2.7	+1.4	+2.8	+1.4
b, b'	0.00	—0.99	+0.01	—1.00	0.00	—1.00	0.00	—1.00

Tag	224) α Orionis		225) δ Aurigae		227) β Aurigae		228) γ Aurigae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	5 ^h 51 ^m	+7° 23'	5 ^h 53 ^m	+54° 16'	5 ^h 54 ^m	+44° 56'	5 ^h 55 ^m	+37° 12'
Jan. 0	27.149 ⁵⁶	51.66 ⁸²	52.486 ⁷⁵	64.06 ¹⁹²	29.473 ⁷⁶	41.89 ¹⁴¹	2.219 ⁷⁵	43.21 ⁹⁶
10	27.205 ⁹	50.84 ⁷²	52.561 ³	65.98 ¹⁸⁴	29.549 ¹¹	43.30 ¹³⁷	2.294 ¹⁶	44.17 ⁹⁵
20	27.214 ³⁷	50.12 ⁵⁹	52.558 ⁷⁹	67.82 ¹⁷⁰	29.560 ⁵³	44.67 ¹²⁸	2.310 ⁴⁰	45.12 ⁹⁰
30	27.177 ⁷⁸	49.53 ⁴⁷	52.479 ¹⁴⁸	69.52 ¹⁴⁸	29.507 ¹¹²	45.95 ¹¹²	2.270 ⁹³	46.02 ⁸¹
Feb. 9	27.099 ¹¹⁴	49.06 ³⁵	52.331 ²⁰⁸	71.00 ¹²¹	29.395 ¹⁶²	47.07 ⁹²	2.177 ¹³⁹	46.83 ⁶⁷
19	26.985 ¹⁴¹	48.71 ²⁴	52.123 ²⁵³	72.21 ⁸⁸	29.233 ²⁰⁰	47.99 ⁶⁸	2.038 ¹⁷³	47.50 ⁴⁹
März 1	26.844 ¹⁶⁰	48.47 ¹³	51.870 ²⁸³	73.09 ⁵¹	29.033 ²²⁶	48.67 ⁴⁰	1.865 ¹⁹⁷	47.99 ²⁹
11	26.684 ¹⁶⁷	48.34 ³	51.587 ²⁹⁷	73.60 ¹⁴	28.807 ²³⁷	49.07 ¹¹	1.668 ²⁰⁷	48.28 ⁹
21	26.517 ¹⁶⁴	48.31 ⁷	51.290 ²⁹¹	73.74 ²⁴	28.570 ²³⁴	49.18 ¹⁷	1.461 ²⁰³	48.37 ¹³
31	26.353 ¹⁵¹	48.38 ¹⁸	50.999 ²⁷⁰	73.50 ⁶⁰	28.336 ²¹⁷	49.01 ⁴⁵	1.258 ¹⁸⁹	48.24 ³²
Apr. 10	26.202 ¹²⁹	48.56 ²⁸	50.729 ²³⁵	72.90 ⁹³	28.119 ¹⁸⁶	48.56 ⁷⁰	1.069 ¹⁶¹	47.92 ⁵⁰
20	26.073 ⁹⁹	48.84 ⁴⁰	50.494 ¹⁸⁷	71.97 ¹²¹	27.933 ¹⁴⁵	47.86 ⁹¹	0.908 ¹²⁴	47.42 ⁶⁵
30	25.974 ⁶⁴	49.24 ⁵¹	50.307 ¹²⁸	70.76 ¹⁴⁴	27.788 ⁹⁶	46.95 ¹⁰⁷	0.784 ⁸¹	46.77 ⁷⁵
Mai 10	25.910 ²⁴	49.75 ⁶²	50.179 ⁶²	69.32 ¹⁶⁰	27.692 ⁴¹	45.88 ¹¹⁹	0.703 ³¹	46.01 ⁸³
20	25.886 ¹⁸	50.37 ⁷⁴	50.117 ⁷	67.72 ¹⁷¹	27.651 ¹⁶	44.69 ¹²⁶	0.672 ²⁰	45.18 ⁸⁶
30	25.904 ⁶⁰	51.11 ⁸⁴	50.124 ⁷⁷	66.01 ¹⁷⁶	27.667 ⁷⁵	43.43 ¹²⁷	0.692 ⁷²	44.32 ⁸⁶
Juni 9	25.964 ¹⁰¹	51.95 ⁹³	50.201 ¹⁴⁶	64.25 ¹⁷⁵	27.742 ¹³²	42.16 ¹²⁶	0.764 ¹²³	43.46 ⁸²
19	26.065 ¹³⁹	52.88 ⁹⁹	50.347 ²¹¹	62.50 ¹⁶⁹	27.874 ¹⁸⁶	40.90 ¹¹⁹	0.887 ¹⁷²	42.64 ⁷⁷
29	26.204 ¹⁷⁵	53.87 ¹⁰⁴	50.558 ²⁷¹	60.81 ¹⁵⁹	28.060 ²³⁵	39.71 ¹¹⁰	1.059 ²¹⁵	41.87 ⁶⁸
Juli 9	26.379 ²⁰⁶	54.91 ¹⁰⁴	50.829 ³²⁶	59.22 ¹⁴⁵	28.295 ²⁸⁰	38.61 ⁹⁹	1.274 ²⁵⁴	41.19 ⁵⁹
19	26.585 ²³³	55.95 ¹⁰²	51.155 ³⁷²	57.77 ¹²⁷	28.575 ³¹⁸	37.62 ⁸⁶	1.528 ²⁸⁹	40.60 ⁴⁹
29	26.818 ²⁵⁵	56.97 ⁹⁴	51.527 ⁴¹³	56.50 ¹⁰⁸	28.893 ³⁵⁰	36.76 ⁷²	1.817 ³¹⁶	40.11 ³⁹
Aug. 8	27.073 ²⁷³	57.91 ⁸⁴	51.940 ⁴⁴⁴	55.42 ⁸⁸	29.243 ³⁷⁵	36.04 ⁵⁶	2.133 ³³⁹	39.72 ²⁹
18	27.346 ²⁸⁷	58.75 ⁶⁹	52.384 ⁴⁷¹	54.54 ⁶⁶	29.618 ³⁹⁶	35.48 ⁴¹	2.472 ³⁵⁶	39.43 ²⁰
28	27.633 ²⁹⁷	59.44 ⁵¹	52.855 ⁴⁸⁸	53.88 ⁴²	30.014 ⁴¹¹	35.07 ²⁶	2.828 ³⁶⁹	39.23 ¹¹
Sept. 7	27.930 ³⁰²	59.95 ³⁰	53.343 ⁵⁰⁰	53.46 ¹⁹	30.425 ⁴¹⁹	34.81 ¹⁰	3.197 ³⁷⁷	39.12 ⁴
17	28.232 ³⁰⁵	60.25 ⁸	53.843 ⁵⁰⁵	53.27 ⁵	30.844 ⁴²⁴	34.71 ⁵	3.574 ³⁸⁰	39.08 ⁵
27	28.537 ³⁰³	60.33 ¹⁴	54.348 ⁵⁰³	53.32 ²⁹	31.268 ⁴²³	34.76 ²¹	3.954 ³⁸⁰	39.13 ¹³
Okt. 7	28.840 ²⁹⁹	60.19 ³⁷	54.851 ⁴⁹⁶	53.61 ⁵⁴	31.691 ⁴¹⁶	34.97 ³⁶	4.334 ³⁷⁴	39.26 ²¹
17	29.139 ²⁹⁰	59.82 ⁵⁸	55.347 ⁴⁷⁹	54.15 ⁷⁷	32.107 ⁴⁰⁴	35.33 ⁵²	4.708 ³⁶⁴	39.47 ²⁹
27	29.429 ²⁷⁶	59.24 ⁷⁵	55.826 ⁴⁵⁶	54.92 ¹⁰¹	32.511 ³⁸⁶	35.85 ⁶⁷	5.072 ³⁴⁹	39.76 ³⁸
Nov. 6	29.705 ²⁵⁸	58.49 ⁸⁸	56.282 ⁴²⁴	55.93 ¹²³	32.897 ³⁶⁰	36.52 ⁸⁴	5.421 ³²⁶	40.14 ⁴⁸
16	29.963 ²³⁴	57.61 ⁹⁸	56.706 ³⁸¹	57.16 ¹⁴⁵	33.257 ³²⁶	37.36 ⁹⁹	5.747 ²⁹⁷	40.62 ⁵⁹
26	30.197 ²⁰⁵	56.63 ¹⁰³	57.087 ³³⁰	58.61 ¹⁶²	33.583 ²⁸⁵	38.35 ¹¹³	6.044 ²⁶⁰	41.21 ⁶⁹
Dez. 6	30.402 ¹⁶⁹	55.60 ¹⁰²	57.417 ²⁶⁸	60.23 ¹⁷⁷	33.868 ²³⁶	39.48 ¹²⁵	6.304 ²¹⁷	41.90 ⁷⁹
16	30.571 ¹²⁸	54.58 ⁹⁸	57.685 ²⁰⁰	62.00 ¹⁸⁶	34.104 ¹⁷⁸	40.73 ¹³⁴	6.521 ¹⁶⁷	42.69 ⁸⁶
25	30.699 ⁸⁵	53.60 ⁹⁰	57.885 ¹²⁴	63.86 ¹⁹¹	34.282 ¹¹⁷	42.07 ¹³⁸	6.688 ¹¹¹	43.55 ⁹²
35	30.784	52.70	58.009	65.77	34.399	43.45	6.799	44.47
Mittl. Ort	26.145	44.52	50.729	53.86	28.056	32.27	0.974	34.11
sec δ , tg δ	1.008	+0.130	1.713	+1.391	1.413	+0.998	1.256	+0.759
a, a'	+3.2	+0.7	+4.9	+0.5	+4.4	+0.5	+4.1	+0.4
b, b'	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00

Tag	229) γ Columbae		232) γ Orionis		236) γ Geminorum		234) 22 H. Camelop.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	5 ^h 57 ^m	-42° 48'	6 ^h 3 ^m	+14° 46'	6 ^h 10 ^m	+22° 31'	6 ^h 11 ^m	+69° 20'
Jan. 0	3.721 ¹⁶	61.55 ³⁰⁷	38.995 ⁷²	48.56 ⁴¹	43.875 ⁸⁴	50.05 ⁵	18.03 ¹¹	59.29 ²⁶⁴
10	3.705 ⁷⁵	64.62 ²⁸¹	39.067 ²⁴	48.15 ³²	43.959 ³³	50.10 ¹²	18.14 ²	61.93 ²⁵⁶
20	3.630 ¹²⁹	67.43 ²⁴⁸	39.091 ²⁵	47.83 ²⁴	43.992 ¹⁸	50.22 ¹⁷	18.12 ¹⁴	64.49 ²⁴⁰
30	3.501 ¹⁷⁹	69.91 ²⁰⁸	39.066 ⁶⁸	47.59 ¹⁶	43.974 ⁶⁵	50.39 ¹⁹	17.98 ²⁵	66.89 ²¹³
Feb. 9	3.322 ²¹⁹	71.99 ¹⁶⁴	38.998 ¹⁰⁷	47.43 ¹⁰	43.909 ¹⁰⁷	50.58 ²⁰	17.73 ³⁶	69.02 ¹⁷⁹
19	3.103 ²⁵²	73.63 ¹¹⁷	38.891 ¹³⁸	47.33 ⁵	43.802 ¹⁴⁰	50.78 ¹⁸	17.37 ⁴⁴	70.81 ¹³⁶
März 1	2.851 ²⁷²	74.80 ⁶⁷	38.753 ¹⁵⁸	47.28 ²	43.662 ¹⁶²	50.96 ¹⁴	16.93 ⁴⁹	72.17 ⁹⁰
11	2.579 ²⁸¹	75.47 ¹⁸	38.595 ¹⁶⁹	47.26 ²	43.500 ¹⁷⁵	51.10 ⁹	16.44 ⁵²	73.07 ⁴¹
21	2.298 ²⁷⁸	75.65 ³¹	38.426 ¹⁶⁸	47.28 ⁴	43.325 ¹⁷⁵	51.19 ⁴	15.92 ⁵²	73.48 ¹⁰
31	2.020 ²⁶⁵	75.34 ⁷⁹	38.258 ¹⁵⁶	47.32 ⁷	43.150 ¹⁶⁴	51.23 ²	15.40 ⁴⁹	73.38 ⁵⁹
Apr. 10	1.755 ²⁴⁰	74.55 ¹²⁴	38.102 ¹³⁵	47.39 ¹⁰	42.986 ¹⁴⁴	51.21 ⁷	14.91 ⁴⁵	72.79 ¹⁰⁵
20	1.515 ²⁰⁸	73.31 ¹⁶⁸	37.967 ¹⁰⁶	47.49 ¹⁴	42.842 ¹¹³	51.14 ⁹	14.46 ³⁸	71.74 ¹⁴⁶
30	1.307 ¹⁶⁸	71.63 ²⁰⁶	37.861 ⁷⁰	47.63 ²⁰	42.729 ⁷⁸	51.05 ¹¹	14.08 ²⁹	70.28 ¹⁸¹
Mai 10	1.139 ¹²¹	69.57 ²⁴⁰	37.791 ³¹	47.83 ²⁶	42.651 ³⁷	50.94 ¹¹	13.79 ¹⁹	68.47 ²⁰⁸
20	1.018 ⁷²	67.17 ²⁶⁹	37.760 ¹¹	48.09 ³²	42.614 ⁷	50.83 ⁸	13.60 ⁹	66.39 ²²⁹
30	0.946 ²⁰	64.48 ²⁹²	37.771 ⁵⁴	48.41 ⁴⁰	42.621 ⁵¹	50.75 ⁵	13.51 ³	64.10 ²⁴¹
Juni 9	0.926 ³³	61.56 ³⁰⁶	37.825 ⁹⁶	48.81 ⁴⁷	42.672 ⁹⁵	50.70 ⁰	13.54 ¹⁴	61.69 ²⁴⁷
19	0.959 ⁸⁵	58.50 ³¹⁴	37.921 ¹³⁵	49.28 ⁵³	42.767 ¹³⁶	50.70 ⁴	13.68 ²⁵	59.22 ²⁴⁵
29	1.044 ¹³⁴	55.36 ³¹³	38.056 ¹⁷²	49.81 ⁵⁷	42.903 ¹⁷⁴	50.74 ⁹	13.93 ³⁴	56.77 ²³⁷
Juli 9	1.178 ¹⁸⁰	52.23 ³⁰⁴	38.228 ²⁰⁴	50.38 ⁵⁹	43.077 ²⁰⁹	50.83 ¹³	14.27 ⁴⁴	54.40 ²²³
19	1.358 ²²²	49.19 ²⁸⁴	38.432 ²³³	50.97 ⁵⁹	43.286 ²³⁹	50.96 ¹⁶	14.71 ⁵³	52.17 ²⁰⁵
29	1.580 ²⁶⁰	46.35 ²⁵⁶	38.665 ²⁵⁶	51.56 ⁵⁶	43.525 ²⁶⁴	51.12 ¹⁶	15.24 ⁶⁰	50.12 ¹⁸¹
Aug. 8	1.840 ²⁹²	43.79 ²²⁰	38.921 ²⁷⁵	52.12 ⁵¹	43.789 ²⁸⁵	51.28 ¹⁵	15.84 ⁶⁷	48.31 ¹⁵⁵
18	2.132 ³¹⁸	41.59 ¹⁷⁶	39.196 ²⁹¹	52.63 ⁴¹	44.074 ³⁰²	51.43 ¹²	16.51 ⁷²	46.76 ¹²⁵
28	2.450 ³³⁸	39.83 ¹²⁴	39.487 ³⁰³	53.04 ³⁰	44.376 ³¹⁴	51.55 ⁸	17.23 ⁷⁵	45.51 ⁹³
Sept. 7	2.788 ³⁵⁰	38.59 ⁶⁹	39.790 ³¹⁰	53.34 ¹⁶	44.690 ³²⁴	51.63 ¹	17.98 ⁷⁸	44.58 ⁶⁰
17	3.138 ³⁵⁷	37.90 ⁹	40.100 ³¹⁴	53.50 ¹	45.014 ³³⁰	51.64 ⁷	18.76 ⁸⁰	43.98 ²⁴
27	3.495 ³⁵⁵	37.81 ⁵²	40.414 ³¹⁵	53.51 ¹⁴	45.344 ³³¹	51.57 ¹³	19.56 ⁸¹	43.74 ¹³
Okt. 7	3.850 ³⁴⁶	38.33 ¹¹²	40.729 ³¹³	53.37 ²⁹	45.675 ³³⁰	51.44 ²⁰	20.37 ⁷⁹	43.87 ⁴⁹
17	4.196 ³³⁰	39.45 ¹⁶⁹	41.042 ³⁰⁵	53.08 ⁴²	46.005 ³³³	51.24 ²⁶	21.16 ⁷⁷	44.36 ⁸⁶
27	4.526 ³⁰⁵	41.14 ²¹⁹	41.347 ²⁹³	52.66 ⁵³	46.328 ³¹²	50.98 ³⁰	21.93 ⁷⁴	45.22 ¹²²
Nov. 6	4.831 ²⁷⁴	43.33 ²⁶³	41.640 ²⁷⁷	52.13 ⁶¹	46.640 ²⁹⁶	50.68 ³¹	22.67 ⁶⁹	46.44 ¹⁵⁷
16	5.105 ²³⁴	45.96 ²⁹⁷	41.917 ²⁵³	51.52 ⁶⁵	46.936 ²⁷²	50.37 ²⁹	23.36 ⁶¹	48.01 ¹⁸⁹
26	5.339 ¹⁸⁸	48.93 ³¹⁹	42.170 ²²⁵	50.87 ⁶⁶	47.208 ²⁴³	50.08 ²⁴	23.97 ⁵³	49.90 ²¹⁶
Dez. 6	5.527 ¹³⁶	52.12 ³³²	42.395 ¹⁸⁹	50.21 ⁶²	47.451 ²⁰⁷	49.84 ¹⁹	24.50 ⁴³	52.06 ²³⁸
16	5.663 ⁸⁰	55.44 ³³²	42.584 ¹⁴⁸	49.59 ⁵⁷	47.658 ¹⁶⁴	49.65 ¹¹	24.93 ³²	54.44 ²⁵⁴
25	5.743 ²¹	58.76 ³²¹	42.732 ¹⁰²	49.02 ⁵⁰	47.822 ¹¹⁶	49.54 ³	25.25 ¹⁹	56.98 ²⁶¹
35	5.764	61.97	42.834	48.52	47.938	49.51	25.44	59.59
Mittl. Ort	2.078	66.30	37.957	41.06	42.779	42.31	14.81	49.60
sec δ , tg δ	1.363	-0.927	1.034	+0.264	1.083	+0.415	2.835	+2.653
a, a'	+1.8	+0.3	+3.4	-0.3	+3.6	-0.9	+6.6	-1.0
b, b'	0.00	-1.00	0.00	-1.00	0.00	-1.00	-0.01	-1.00

Tag	240) ζ Canis maj.		241) μ Geminorum		242) ψ^1 Aurigae		243) β Canis maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	6 ^h 17 ^m	—30° 1'	6 ^h 18 ^m	+22° 33'	6 ^h 19 ^m	+49° 19'	6 ^h 19 ^m	—17° 54'
Jan. 0	41.116 ³⁷	47.71 ²⁷⁸	48.324 ⁹³	9.81 ²	36.829 ¹¹⁴	39.00 ¹⁶⁴	40.775 ⁵⁶	67.18 ²²⁸
10	41.153 ¹⁵	50.49 ²⁵⁸	48.417 ⁴²	9.83 ¹¹	36.943 ⁴¹	40.64 ¹⁶⁴	40.831 ⁸	69.46 ²¹⁰
20	41.138 ⁶⁶	53.07 ²³⁰	48.459 ¹⁰	9.94 ¹⁷	36.984 ³¹	42.28 ¹⁵⁸	40.839 ³⁹	71.56 ¹⁸⁶
30	41.072 ¹¹³	55.37 ¹⁹⁷	48.449 ⁵⁹	10.11 ²⁰	36.953 ⁹⁷	43.86 ¹⁴⁴	40.800 ⁸⁴	73.42 ¹⁵⁸
Feb. 9	40.959 ¹⁵³	57.34 ¹⁵⁹	48.390 ¹⁰¹	10.31 ²²	36.856 ¹⁵⁶	45.30 ¹²⁴	40.716 ¹²³	75.00 ¹²⁷
19	40.806 ¹⁸⁵	58.93 ¹¹⁹	48.289 ¹³⁵	10.53 ²⁰	36.700 ²⁰⁴	46.54 ⁹⁸	40.593 ¹⁵⁴	76.27 ⁹⁵
März 1	40.621 ²⁰⁷	60.12 ⁷⁸	48.154 ¹⁶⁰	10.73 ¹⁷	36.496 ²³⁷	47.52 ⁶⁹	40.439 ¹⁷⁵	77.22 ⁶¹
11	40.414 ²¹⁹	60.90 ³⁵	47.994 ¹⁷⁴	10.90 ¹²	36.259 ²⁵⁷	48.21 ³⁸	40.264 ¹⁸⁷	77.83 ²⁷
21	40.195 ²²¹	61.25 ⁷	47.820 ¹⁷⁵	11.02 ⁷	36.002 ²⁵⁹	48.59 ⁴	40.077 ¹⁸⁹	78.10 ⁷
31	39.974 ²¹²	61.18 ⁴⁸	47.645 ¹⁶⁵	11.09 ¹	35.743 ²⁴⁷	48.63 ²⁸	39.888 ¹⁸¹	78.03 ³⁹
Apr. 10	39.762 ¹⁹⁴	60.70 ⁸⁹	47.480 ¹⁴⁶	11.10 ⁴	35.496 ²²¹	48.35 ⁵⁹	39.707 ¹⁶⁴	77.64 ⁷²
20	39.568 ¹⁶⁷	59.81 ¹²⁷	47.334 ¹¹⁸	11.06 ⁸	35.275 ¹⁸²	47.76 ⁸⁷	39.543 ¹³⁸	76.92 ¹⁰²
30	39.401 ¹³³	58.54 ¹⁶²	47.216 ⁸³	10.98 ¹⁰	35.093 ¹³⁴	46.89 ¹¹⁰	39.405 ¹⁰⁶	75.90 ¹³⁰
Mai 10	39.268 ⁹⁵	56.92 ¹⁹⁴	47.133 ⁴³	10.88 ¹⁰	34.959 ⁸⁰	45.79 ¹²⁸	39.299 ⁷⁰	74.60 ¹⁵⁶
20	39.173 ⁵³	54.98 ²²¹	47.090 ⁰	10.78 ⁹	34.879 ¹⁹	44.51 ¹⁴¹	39.229 ³¹	73.04 ¹⁷⁹
30	39.120 ¹⁰	52.77 ²⁴⁴	47.090 ⁴⁴	10.69 ⁶	34.860 ⁴²	43.10 ¹⁵⁰	39.198 ⁹	71.25 ¹⁹⁸
Juni 9	39.110 ³⁵	50.33 ²⁵⁹	47.134 ⁸⁷	10.63 ³	34.902 ¹⁰³	41.60 ¹⁵³	39.207 ⁵¹	69.27 ²¹¹
19	39.145 ⁷⁸	47.74 ²⁷⁰	47.221 ¹²⁹	10.60 ²	35.005 ¹⁶¹	40.07 ¹⁵²	39.258 ⁹⁰	67.16 ²²¹
29	39.223 ¹²⁰	45.04 ²⁷²	47.350 ¹⁶⁷	10.62 ⁵	35.166 ²¹⁶	38.55 ¹⁴⁷	39.348 ¹²⁸	64.95 ²²³
Juli 9	39.343 ¹⁵⁹	42.32 ²⁶⁶	47.517 ²⁰¹	10.67 ⁹	35.382 ²⁶⁶	37.08 ¹³⁸	39.476 ¹⁶²	62.72 ²²⁰
19	39.502 ¹⁹⁴	39.66 ²⁵⁴	47.718 ²³²	10.76 ¹⁰	35.648 ³¹¹	35.70 ¹²⁷	39.638 ¹⁹⁴	60.52 ²⁰⁸
29	39.696 ²²⁷	37.12 ²³¹	47.950 ²⁵⁸	10.86 ¹¹	35.959 ³⁴⁹	34.43 ¹¹⁴	39.832 ²²²	58.44 ¹⁹¹
Aug. 8	39.923 ²⁵³	34.81 ²⁰²	48.208 ²⁸⁰	10.97 ⁹	36.308 ³⁸¹	33.29 ⁹⁹	40.054 ²⁴⁵	56.53 ¹⁶⁷
18	40.176 ²⁷⁶	32.79 ¹⁶⁵	48.488 ²⁹⁸	11.06 ⁷	36.689 ⁴⁰⁹	32.30 ⁸³	40.299 ²⁶⁴	54.86 ¹³⁶
28	40.452 ²⁹⁵	31.14 ¹²²	48.786 ³¹²	11.13 ¹	37.098 ⁴²⁹	31.47 ⁶⁵	40.563 ²⁸¹	53.50 ¹⁰⁰
Sept. 7	40.747 ³⁰⁸	29.92 ⁷²	49.098 ³²²	11.14 ⁵	37.527 ⁴⁴⁴	30.82 ⁴⁷	40.844 ²⁹²	52.50 ⁵⁹
17	41.055 ³¹⁷	29.20 ²¹	49.420 ³²⁹	11.09 ¹³	37.971 ⁴⁵⁵	30.35 ²⁹	41.136 ³⁰⁰	51.91 ¹⁴
27	41.372 ³²⁰	28.99 ³⁴	49.749 ³³²	10.96 ²⁰	38.426 ⁴⁵⁹	30.06 ¹⁰	41.436 ³⁰³	51.77 ³²
Okt. 7	41.692 ³¹⁷	29.33 ⁸⁸	50.081 ³³¹	10.76 ²⁷	38.885 ⁴⁵⁷	29.96 ¹¹	41.739 ³⁰²	52.09 ⁷⁷
17	42.009 ³⁰⁹	30.21 ¹⁴⁰	50.412 ³²⁷	10.49 ³³	39.342 ⁴⁵⁰	30.07 ³²	42.041 ²⁹⁶	52.86 ¹²⁰
27	42.318 ²⁹⁴	31.61 ¹⁸⁶	50.739 ³¹⁷	10.16 ³⁵	39.792 ⁴³⁴	30.39 ⁵⁴	42.337 ²⁸⁴	54.06 ¹⁶⁰
Nov. 6	42.612 ²⁷²	33.47 ²²⁸	51.056 ³⁰²	9.81 ³⁶	40.226 ⁴¹¹	30.93 ⁷⁵	42.621 ²⁶⁶	55.66 ¹⁹³
16	42.884 ²⁴⁴	35.75 ²⁵⁹	51.358 ²⁷⁹	9.45 ³⁵	40.637 ³⁷⁸	31.68 ⁹⁶	42.887 ²⁴²	57.59 ²¹⁸
26	43.128 ²⁰⁸	38.34 ²⁸²	51.637 ²⁵⁰	9.10 ²⁹	41.015 ³³⁶	32.64 ¹¹⁶	43.129 ²¹²	59.77 ²³⁷
Dez. 6	43.336 ¹⁶⁷	41.16 ²⁹⁵	51.887 ²¹⁵	8.81 ²³	41.351 ²⁸⁵	33.80 ¹³⁵	43.341 ¹⁷⁵	62.14 ²⁴⁶
16	43.503 ¹²⁰	44.11 ²⁹⁷	52.102 ¹⁷²	8.58 ¹⁵	41.636 ²²⁵	35.15 ¹⁴⁹	43.516 ¹³³	64.60 ²⁴⁷
26	43.623 ⁷⁰	47.08 ²⁹⁰	52.274 ¹²⁶	8.43 ⁵	41.861 ¹⁵⁸	36.64 ¹⁵⁸	43.649 ⁸⁶	67.07 ²³⁹
35	43.693	49.98	52.400	8.38	42.019	38.22	43.735	69.46
Mittl. Ort	39.814	53.96	47.216	2.28	35.176	30.61	39.639	73.68
see δ , tg δ	1.155	—0.578	1.083	+0.415	1.534	+1.164	1.051	—0.323
a , a'	+2.3	—1.5	+3.6	—1.6	+4.6	—1.7	+2.6	—1.7
b , b'	0.00	—1.00	0.00	—1.00	—0.01	—1.00	0.00	—1.00

Tag	244) 8 Monocerotis		245) α Argus		246) 10 Monocerotis		247) 8 Lyncis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	6 ^h 20 ^m	+4° 37'	6 ^h 22 ^m	−52° 38'	6 ^h 24 ^m	−4° 42'	6 ^h 31 ^m	+61° 32'
Jan. 0	7.763 ₈₀	52.21 ₁₀₇	27.166 ₁₆	80.27 ₃₄₂	34.191 ₇₆	58.62 ₁₆₂	25.76 ₁₅	47.04 ₂₂₆
10	7.843 ₃₃	51.14 ₉₄	27.150 ₈₇	83.69 ₃₁₉	34.267 ₂₈	60.24 ₁₄₇	25.91 ₅	49.30 ₂₂₅
20	7.876 ₁₅	50.20 ₇₉	27.063 ₁₅₅	86.88 ₂₈₉	34.295 ₁₈	61.71 ₁₂₈	25.96 ₅	51.55 ₂₁₆
30	7.861 ₆₀	49.41 ₆₄	26.908 ₂₁₅	89.77 ₂₄₉	34.277 ₆₃	62.99 ₁₀₇	25.91 ₁₄	53.71 ₁₉₉
Feb. 9	7.801 ₉₈	48.77 ₄₈	26.693 ₂₆₈	92.26 ₂₀₆	34.214 ₁₀₂	64.06 ₈₄	25.77 ₂₂	55.70 ₁₇₃
19	7.703 ₁₂₉	48.29 ₃₄	26.425 ₃₁₀	94.32 ₁₅₈	34.112 ₁₃₃	64.90 ₆₂	25.55 ₂₈	57.43 ₁₃₉
März 1	7.574 ₁₅₂	47.95 ₁₉	26.115 ₃₃₈	95.90 ₁₀₇	33.979 ₁₅₆	65.52 ₃₉	25.27 ₃₃	58.82 ₁₀₁
11	7.422 ₁₆₅	47.76 ₅	25.777 ₃₅₅	96.97 ₅₅	33.823 ₁₆₈	65.91 ₁₆	24.94 ₃₇	59.83 ₅₉
21	7.257 ₁₆₆	47.71 ₈	25.422 ₃₅₇	97.52 ₂	33.655 ₁₇₁	66.07 ₆	24.57 ₃₇	60.42 ₁₅
31	7.091 ₁₅₈	47.79 ₂₀	25.065 ₃₄₈	97.54 ₄₉	33.484 ₁₆₃	66.01 ₂₇	24.20 ₃₆	60.57 ₂₈
Apr. 10	6.933 ₁₄₀	47.99 ₃₃	24.717 ₃₂₇	97.05 ₁₀₀	33.321 ₁₄₇	65.74 ₄₉	23.84 ₃₃	60.29 ₇₁
20	6.793 ₁₁₅	48.32 ₄₅	24.390 ₂₉₄	96.05 ₁₄₇	33.174 ₁₂₂	65.25 ₆₉	23.51 ₂₉	59.58 ₁₀₉
30	6.678 ₈₂	48.77 ₅₇	24.096 ₂₅₃	94.58 ₁₉₀	33.052 ₉₂	64.56 ₈₈	23.22 ₂₂	58.49 ₁₄₂
Mai 10	6.596 ₄₇	49.34 ₇₀	23.843 ₂₀₄	92.68 ₂₃₁	32.960 ₅₆	63.68 ₁₀₆	23.00 ₁₅	57.07 ₁₆₉
20	6.549 ₇	50.04 ₈₁	23.639 ₁₄₉	90.37 ₂₆₄	32.904 ₁₈	62.62 ₁₂₃	22.85 ₈	55.38 ₁₉₁
30	6.542 ₃₃	50.85 ₉₁	23.490 ₉₂	87.73 ₂₉₂	32.886 ₂₁	61.39 ₁₃₆	22.77 ₁	53.47 ₂₀₆
Juni 9	6.575 ₇₃	51.76 ₉₉	23.398 ₃₁	84.81 ₃₁₂	32.907 ₆₁	60.03 ₁₄₈	22.78 ₈	51.41 ₂₁₄
19	6.648 ₁₁₁	52.75 ₁₀₆	23.367 ₃₀	81.69 ₃₂₄	32.968 ₉₉	58.55 ₁₅₅	22.86 ₁₇	49.27 ₂₁₇
29	6.759 ₁₄₆	53.81 ₁₀₈	23.397 ₉₀	78.45 ₃₂₈	33.067 ₁₃₄	57.00 ₁₅₇	23.03 ₂₄	47.10 ₂₁₃
Juli 9	6.905 ₁₇₉	54.89 ₁₀₈	23.487 ₁₄₉	75.17 ₃₂₂	33.201 ₁₆₇	55.43 ₁₅₆	23.27 ₃₁	44.97 ₂₀₅
19	7.084 ₂₀₇	55.97 ₁₀₅	23.636 ₂₀₄	71.95 ₃₀₇	33.368 ₁₉₆	53.87 ₁₄₉	23.58 ₃₈	42.92 ₁₉₃
29	7.291 ₂₃₂	57.02 ₉₆	23.840 ₂₅₅	68.88 ₂₈₂	33.564 ₂₂₁	52.38 ₁₃₇	23.96 ₄₄	40.99 ₁₇₅
Aug. 8	7.523 ₂₅₃	57.98 ₈₃	24.095 ₂₉₉	66.06 ₂₄₇	33.785 ₂₄₄	51.01 ₁₁₉	24.40 ₄₈	39.24 ₁₅₆
18	7.776 ₂₇₁	58.81 ₆₇	24.394 ₃₃₉	63.59 ₂₀₅	34.029 ₂₆₂	49.82 ₉₇	24.88 ₅₂	37.68 ₁₃₃
28	8.047 ₂₈₃	59.48 ₄₇	24.733 ₃₇₀	61.54 ₁₅₄	34.291 ₂₇₆	48.85 ₇₀	25.40 ₅₆	36.35 ₁₀₈
Sept. 7	8.330 ₂₉₄	59.95 ₂₄	25.103 ₃₉₄	60.00 ₉₆	34.567 ₂₈₈	48.15 ₃₈	25.96 ₅₉	35.27 ₈₂
17	8.624 ₃₀₀	60.19 ₁	25.497 ₄₀₈	59.04 ₃₄	34.855 ₂₉₅	47.77 ₅	26.55 ₆₀	34.45 ₅₃
27	8.924 ₃₀₄	60.18 ₂₇	25.905 ₄₁₄	58.70 ₂₉	35.150 ₂₉₉	47.72 ₂₉	27.15 ₆₀	33.92 ₂₃
Okt. 7	9.228 ₃₀₄	59.91 ₅₂	26.319 ₄₁₀	58.99 ₉₄	35.449 ₃₀₀	48.01 ₆₃	27.75 ₆₁	33.69 ₈
17	9.532 ₂₉₈	59.39 ₇₅	26.729 ₃₉₄	59.93 ₁₅₅	35.749 ₂₉₅	48.64 ₉₆	28.36 ₆₁	33.77 ₄₁
27	9.830 ₂₉₀	58.64 ₉₅	27.123 ₃₆₉	61.48 ₂₁₃	36.044 ₂₈₆	49.60 ₁₂₅	28.97 ₅₈	34.18 ₇₂
Nov. 6	10.120 ₂₇₅	57.69 ₁₁₂	27.492 ₃₃₂	63.61 ₂₆₃	36.330 ₂₇₁	50.85 ₁₄₈	29.55 ₅₅	34.90 ₁₀₅
16	10.395 ₂₅₃	56.57 ₁₂₃	27.824 ₂₈₇	66.24 ₃₀₃	36.601 ₂₅₀	52.33 ₁₆₆	30.10 ₅₀	35.95 ₁₃₅
26	10.648 ₂₂₇	55.34 ₁₂₉	28.111 ₂₃₂	69.27 ₃₃₃	36.851 ₂₂₂	53.99 ₁₇₈	30.60 ₄₅	37.30 ₁₆₃
Dez. 6	10.875 ₁₉₃	54.05 ₁₂₉	28.343 ₁₇₀	72.60 ₃₅₂	37.073 ₁₈₉	55.77 ₁₈₂	31.05 ₃₈	38.93 ₁₈₈
16	11.068 ₁₅₄	52.76 ₁₂₅	28.513 ₁₀₁	76.12 ₃₅₈	37.262 ₁₄₉	57.59 ₁₈₁	31.43 ₃₀	40.81 ₂₀₆
26	11.222 ₁₁₀	51.51 ₁₁₇	28.614 ₂₉	79.70 ₃₅₃	37.411 ₁₀₅	59.40 ₁₇₂	31.73 ₂₁	42.87 ₂₁₉
35	11.332	50.34	28.643	83.23	37.516	61.12	31.94	45.06
Mittl. Ort	6.730	45.23	25.134	86.77	33.142	65.44	23.35	39.09
sec δ , tag δ	1.003	+0.081	1.649	−1.311	1.003	−0.083	2.099	+1.845
a, a'	+3.2	−1.8	+1.3	−2.0	+3.0	−2.1	+5.5	−2.7
b, b'	0.00	−1.00	+0.01	−1.00	0.00	−0.99	−0.02	−0.99

Tag	249) ξ^2 Canis maj.		251) γ Geminorum		250) ζ^1 Aurigae		248) α^3 H. Camelop.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	6 ^h 32 ^m	—22° 54'	6 ^h 33 ^m	+16° 27'	6 ^h 33 ^m	+39° 27'	6 ^h 34 ^m	+79° 38'
Jan. 0	11.024 ⁶³	25.66 ²⁵⁶	44.678 ¹⁰⁴	41.81 ³⁹	54.156 ¹²⁴	19.67 ¹⁰³	36.43 ²⁵	44.80 ³⁰¹
10	11.087 ¹²	28.22 ²³⁸	44.782 ⁵³	41.42 ²⁸	54.280 ⁶²	20.70 ¹⁰⁹	36.68 ¹	47.81 ²⁹⁷
20	11.099 ³⁸	30.60 ²¹³	44.835 ²	41.14 ¹⁷	54.342 ¹	21.79 ¹¹⁰	36.67 ²⁵	50.78 ²⁸²
30	11.061 ⁸³	32.73 ¹⁸⁴	44.837 ⁴⁵	40.97 ⁸	54.341 ⁶⁰	22.89 ¹⁰⁵	36.42 ⁴⁸	53.60 ²⁵⁸
Feb. 9	10.978 ¹²⁴	34.57 ¹⁵¹	44.792 ⁸⁸	40.89 ¹	54.281 ¹¹²	23.94 ⁹⁵	35.94 ⁶⁹	56.13 ²²²
19	10.854 ¹⁵⁷	36.08 ¹¹⁶	44.704 ¹²³	40.88 ⁴	54.169 ¹⁵⁶	24.89 ⁸⁰	35.25 ⁸⁵	58.40 ¹⁷⁹
März 1	10.697 ¹⁸²	37.24 ⁷⁸	44.581 ¹⁴⁹	40.92 ⁸	54.013 ¹⁸⁸	25.69 ⁶¹	34.40 ⁹⁸	60.19 ¹²⁸
11	10.515 ¹⁹⁶	38.02 ⁴¹	44.432 ¹⁶⁴	41.00 ¹⁰	53.825 ²⁰⁷	26.30 ⁴⁰	33.42 ¹⁰⁵	61.47 ⁷⁴
21	10.319 ¹⁹⁹	38.43 ⁴	44.268 ¹⁶⁹	41.10 ¹⁰	53.618 ²¹³	26.70 ¹⁶	32.37 ¹⁰⁸	62.21 ¹⁶
31	10.120 ¹⁹³	38.47 ³³	44.099 ¹⁶²	41.20 ¹²	53.405 ²⁰⁵	26.86 ⁷	31.29 ¹⁰⁶	62.37 ⁴⁰
Apr. 10	9.927 ¹⁷⁸	38.14 ⁶⁹	43.937 ¹⁴⁶	41.32 ¹¹	53.200 ¹⁸⁶	26.79 ²⁹	30.23 ⁹⁸	61.97 ⁹⁵
20	9.749 ¹⁵⁴	37.45 ¹⁰³	43.791 ¹²¹	41.43 ¹³	53.014 ¹⁵⁵	26.50 ⁵⁰	29.25 ⁸⁸	61.02 ¹⁴⁴
30	9.595 ¹²³	36.42 ¹³⁵	43.670 ⁹⁰	41.56 ¹⁵	52.859 ¹¹⁶	26.00 ⁶⁷	28.37 ⁷³	59.58 ¹⁸⁷
Mai 10	9.472 ⁸⁸	35.07 ¹⁶³	43.580 ⁵²	41.71 ¹⁸	52.743 ⁷¹	25.33 ⁸¹	27.64 ⁵⁶	57.71 ²²⁵
20	9.384 ⁵⁰	33.44 ¹⁸⁹	43.528 ¹³	41.89 ²¹	52.672 ²¹	24.52 ⁹¹	27.08 ³⁶	55.46 ²⁵³
30	9.334 ⁹	31.55 ²¹¹	43.515 ²⁸	42.10 ²⁶	52.651 ²⁹	23.61 ⁹⁸	26.72 ¹⁶	52.93 ²⁷³
Juni 9	9.325 ³²	29.44 ²²⁷	43.543 ⁶⁹	42.36 ²⁹	52.680 ⁸⁰	22.63 ¹⁰¹	26.56 ⁵	50.20 ²⁸⁶
19	9.357 ⁷³	27.17 ²³⁷	43.612 ¹⁰⁹	42.65 ³⁴	52.760 ¹²⁹	21.62 ¹⁰¹	26.61 ²⁷	47.34 ²⁹¹
29	9.430 ¹¹¹	24.80 ²⁴¹	43.721 ¹⁴⁵	42.99 ³⁶	52.889 ¹⁷⁶	20.61 ⁹⁹	26.88 ⁴⁷	44.43 ²⁸⁸
Juli 9	9.541 ¹⁴⁸	22.39 ²³⁸	43.866 ¹⁸⁰	43.35 ³⁶	53.065 ²¹⁸	19.62 ⁹⁵	27.35 ⁶⁶	41.55 ²⁷⁷
19	9.689 ¹⁸²	20.01 ²²⁷	44.046 ²⁰⁹	43.71 ³⁶	53.283 ²⁵⁵	18.67 ⁸⁹	28.01 ⁸⁴	38.78 ²⁶¹
29	9.871 ²¹¹	17.74 ²¹⁰	44.255 ²³⁶	44.07 ³³	53.538 ²⁹⁰	17.78 ⁸¹	28.85 ¹⁰¹	36.17 ²³⁹
Aug. 8	10.082 ²³⁷	15.64 ¹⁸⁴	44.491 ²⁵⁹	44.40 ²⁷	53.828 ³¹⁷	16.97 ⁷⁴	29.86 ¹¹⁵	33.78 ²¹¹
18	10.319 ²⁶⁰	13.80 ¹⁵²	44.750 ²⁷⁷	44.67 ¹⁸	54.145 ³⁴¹	16.23 ⁶⁶	31.01 ¹²⁶	31.67 ¹⁸⁰
28	10.579 ²⁷⁹	12.28 ¹¹⁴	45.027 ²⁹³	44.85 ⁸	54.486 ³⁶¹	15.57 ⁵⁸	32.27 ¹³⁷	29.87 ¹⁴⁵
Sept. 7	10.858 ²⁹³	11.14 ⁶⁹	45.320 ³⁰⁵	44.93 ⁴	54.847 ³⁷⁶	14.99 ⁴⁹	33.64 ¹⁴⁵	28.42 ¹⁰⁷
17	11.151 ³⁰³	10.45 ²²	45.625 ³¹⁴	44.89 ¹⁸	55.223 ³⁸⁶	14.50 ⁴⁰	35.09 ¹⁴⁹	27.35 ⁶⁶
27	11.454 ³⁰⁹	10.23 ²⁷	45.939 ³¹⁹	44.71 ³¹	55.609 ³⁹³	14.10 ³¹	36.58 ¹⁵²	26.69 ²³
Okt. 7	11.763 ³⁰⁹	10.50 ⁷⁷	46.258 ³²¹	44.40 ⁴⁵	56.002 ³⁹⁶	13.79 ²⁰	38.10 ¹⁵²	26.46 ²⁰
17	12.072 ³⁰⁵	11.27 ¹²⁴	46.579 ³¹⁹	43.95 ⁵⁶	56.398 ³⁹²	13.59 ⁷	39.62 ¹⁴⁹	26.66 ⁶⁵
27	12.377 ²⁹⁴	12.51 ¹⁶⁸	46.898 ³¹²	43.39 ⁶⁶	56.790 ³⁸²	13.52 ⁶	41.11 ¹⁴²	27.31 ¹¹⁰
Nov. 6	12.671 ²⁷⁷	14.19 ²⁰⁵	47.210 ²⁹⁹	42.73 ⁷¹	57.172 ³⁶⁶	13.58 ²⁰	42.53 ¹³³	28.41 ¹⁵²
16	12.948 ²⁵³	16.24 ²³⁵	47.509 ²⁸⁰	42.02 ⁷³	57.538 ³⁴²	13.78 ³⁷	43.86 ¹²⁰	29.93 ¹⁹²
26	13.201 ²¹²	18.59 ²⁵⁷	47.789 ²⁵³	41.29 ⁷²	57.880 ³⁰⁸	14.15 ⁵³	45.06 ¹⁰⁵	31.85 ²²⁸
Dez. 6	13.423 ¹⁸⁵	21.16 ²⁶⁹	48.042 ²¹⁹	40.57 ⁶⁶	58.188 ²⁶⁷	14.68 ⁶⁹	46.11 ⁸⁵	34.13 ²⁵⁸
16	13.608 ¹⁴²	23.85 ²⁷³	48.261 ¹⁸⁰	39.91 ⁵⁸	58.455 ²¹⁸	15.37 ⁸³	46.96 ⁶⁴	36.71 ²⁸¹
26	13.750 ⁹⁵	26.58 ²⁶⁶	48.441 ¹³⁵	39.33 ⁴⁹	58.673 ¹⁶²	16.20 ⁹⁵	47.60 ³⁹	39.52 ²⁹⁴
35	13.845	29.24	48.576	38.84	58.835	17.15	47.99	42.46
Mittl. Ort sec δ , ϵ g δ	9.841 1.086	32.59 —0.423	43.599 1.043	34.78 +0.295	52.764 1.295	12.34 +0.823	29.50 5.563	36.67 +5.472
a, a'	+2.5	—2.8	+3.5	—2.9	+4.2	—3.0	+10.3	—3.0
b, b'	0.00	—0.99	0.00	—0.99	—0.01	—0.99	—0.05	—0.99

Tag	252) ν Argus		253) S Monocerotis		254) ϵ Geminorum		256) ξ Geminorum	
	A.R.	Dekl.	A.R.	Dekl.	A.R.	Dekl.	A.R.	Dekl.
1931	6 ^h 35 ^m	—43° 7'	6 ^h 37 ^m	+9° 57'	6 ^h 39 ^m	+25° 12'	6 ^h 41 ^m	+12° 58'
Jan. 0*)	40.565	57.97	40.565	57.97	42.473	10.71	26.122	23.85
10	40.597	61.26	40.597	61.26	42.590	10.86	26.230	23.21
20	40.568	64.35	40.568	64.35	42.653	11.10	26.288	22.70
30	40.479	67.16	40.479	67.16	42.663	11.42	26.296	22.32
Feb. 9	40.335	69.63	40.335	69.63	42.621	11.78	26.256	22.05
19	40.144	71.69	40.144	71.69	42.533	12.15	26.174	21.89
März 1	39.914	73.30	39.914	73.30	42.407	12.51	26.056	21.82
11	39.655	74.44	39.655	74.44	42.253	12.82	25.911	21.82
21	39.380	75.10	39.380	75.10	42.080	13.07	25.750	21.88
31	39.100	75.26	39.100	75.26	41.902	13.23	25.584	21.98
Apr. 10	38.825	74.94	38.825	74.94	41.730	13.30	25.422	22.12
20	38.567	74.15	38.567	74.15	41.574	13.29	25.276	22.30
30	38.335	72.90	38.335	72.90	41.443	13.21	25.152	22.53
Mai 10	38.137	71.23	38.137	71.23	41.345	13.06	25.059	22.80
20	37.980	69.19	37.980	69.19	41.286	12.88	25.001	23.12
30	37.868	66.80	37.868	66.80	41.268	12.67	24.981	23.49
Juni 9	37.804	64.14	37.804	64.14	41.293	12.45	25.001	23.91
19	37.790	61.27	37.790	61.27	41.361	12.24	25.061	24.38
29	37.826	58.26	37.826	58.26	41.471	12.04	25.159	24.89
Juli 9	37.912	55.20	37.912	55.20	41.621	11.86	25.294	25.42
19	38.046	52.17	38.046	52.17	41.806	11.70	25.462	25.95
29	38.225	49.26	38.225	49.26	42.023	11.55	25.660	26.47
Aug. 8	38.445	46.56	38.445	46.56	42.269	11.40	25.884	26.93
18	38.702	44.18	38.702	44.18	42.539	11.24	26.132	27.31
28	38.992	42.19	38.992	42.19	42.830	11.06	26.399	27.58
Sept. 7	39.308	40.66	39.308	40.66	43.138	10.84	26.683	27.72
17	39.646	39.67	39.646	39.67	43.460	10.58	26.979	27.70
27	39.999	39.25	39.999	39.25	43.792	10.26	27.285	27.52
Okt. 7	40.359	39.44	40.359	39.44	44.130	9.90	27.598	27.16
17	40.719	40.25	40.719	40.25	44.472	9.50	27.914	26.63
27	41.072	41.66	41.072	41.66	44.812	9.07	28.230	25.95
Nov. 6	41.408	43.62	41.408	43.62	45.145	8.64	28.539	25.14
16	41.719	46.06	41.719	46.06	45.466	8.23	28.836	24.25
26	41.996	48.90	41.996	48.90	45.767	7.88	29.115	23.31
Dez. 6	42.232	52.05	42.232	52.05	46.041	7.60	29.369	22.37
16	42.418	55.39	42.418	55.39	46.281	7.42	29.591	21.46
26	42.548	58.81	42.548	58.81	46.478	7.35	29.774	20.62
35	42.619	62.19	42.619	62.19	46.628	7.40	29.912	19.89
Mittl. Ort	38.971	65.30	38.971	65.30	41.312	3.80	25.057	16.98
sec δ , tg δ	1.370	—0.937	1.015	+0.176	1.105	+0.471	1.026	+0.230
a, a'	+1.8	—3.1	+3.3	—3.2	+3.7	—3.5	+3.4	—3.6
b, b'	+0.01	—0.99	0.00	—0.99	—0.01	—0.99	0.00	—0.98

*) Bei Stern 254) und 256) lies Jan. 1

Tag	257) α Canis maj. 1)		258) 18 Monocerotis		262) α Pictoris		261) θ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	6 ^h 42 ^m	—16° 36'	6 ^h 44 ^m	+2° 29'	6 ^h 47 ^m	—61° 51'	6 ^h 48 ^m	+34° 2'
Jan. I	7.504 ⁷⁶	68.55 ²³³	16.883 ¹⁰²	27.05 ¹²⁸	31.69 ¹	52.63 ³⁶³	15.923 ¹³⁵	52.46 ⁶⁷
IO	7.580 ²⁶	70.88 ²¹⁶	16.985 ⁵³	25.77 ¹¹³	31.68 ¹⁰	56.26 ³⁴⁷	16.058 ⁷⁷	53.13 ⁷⁶
20	7.606 ²²	73.04 ¹⁹³	17.038 ⁵	24.64 ⁹⁷	31.58 ²⁰	59.73 ³²⁰	16.135 ¹⁸	53.89 ⁸²
30	7.584 ⁶⁸	74.97 ¹⁶⁶	17.043 ⁴²	23.67 ⁷⁹	31.38 ²⁷	62.93 ²⁸⁶	16.153 ³⁹	54.71 ⁸²
Feb. 9	7.516 ¹⁰⁹	76.63 ¹³⁷	17.001 ⁸³	22.88 ⁶¹	31.11 ³⁴	65.79 ²⁴⁴	16.114 ⁹⁰	55.53 ⁷⁹
19	7.407 ¹⁴³	78.00 ¹⁰⁴	16.918 ¹¹⁸	22.27 ⁴⁴	30.77 ⁴⁰	68.23 ¹⁹⁸	16.024 ¹³³	56.32 ⁷⁰
März I	7.264 ¹⁶⁷	79.04 ⁷²	16.800 ¹⁴³	21.83 ²⁷	30.37 ⁴⁴	70.21 ¹⁴⁹	15.891 ¹⁶⁶	57.02 ⁵⁸
11	7.097 ¹⁸²	79.76 ³⁹	16.657 ¹⁶⁰	21.56 ¹⁰	29.93 ⁴⁷	71.70 ⁹⁶	15.725 ¹⁸⁶	57.60 ⁴²
21	6.915 ¹⁸⁶	80.15 ⁷	16.497 ¹⁶⁵	21.46 ⁴	29.46 ⁴⁸	72.66 ⁴²	15.539 ¹⁹⁵	58.02 ²⁵
31	6.729 ¹⁸¹	80.22 ²⁶	16.332 ¹⁶¹	21.50 ¹⁹	28.98 ⁴⁸	73.08 ¹¹	15.344 ¹⁹¹	58.27 ⁷
Apr. 10	6.548 ¹⁶⁶	79.96 ⁵⁶	16.171 ¹⁴⁷	21.69 ³⁴	28.50 ⁴⁶	72.97 ⁶⁴	15.153 ¹⁷⁵	58.34 ¹⁰
20	6.382 ¹⁴⁴	79.40 ⁸⁶	16.024 ¹²⁵	22.03 ⁴⁷	28.04 ⁴²	72.33 ¹¹⁵	14.978 ¹⁴⁹	58.24 ²⁷
30	6.238 ¹¹⁴	78.54 ¹¹³	15.899 ⁹⁷	22.50 ⁶⁰	27.62 ³⁸	71.18 ¹⁶³	14.829 ¹¹⁴	57.97 ⁴¹
Mai 10	6.124 ⁸¹	77.41 ¹³⁸	15.802 ⁶³	23.10 ⁷³	27.24 ³³	69.55 ²⁰⁷	14.715 ⁷⁵	57.56 ⁵⁴
20	6.043 ⁴³	76.03 ¹⁶¹	15.739 ²⁷	23.83 ⁸⁵	26.91 ²⁷	67.48 ²⁴⁵	14.640 ³⁰	57.02 ⁶²
30	6.000 ⁴	74.42 ¹⁸⁰	15.712 ¹²	24.68 ⁹⁵	26.64 ²⁰	65.03 ²⁷⁸	14.610 ¹⁶	56.40 ⁶⁸
Juni 9	5.996 ³⁶	72.62 ¹⁹⁴	15.724 ⁵⁰	25.63 ¹⁰⁴	26.44 ¹³	62.25 ³⁰⁴	14.626 ⁶³	55.72 ⁷²
19	6.032 ⁷⁴	70.68 ²⁰³	15.774 ⁸⁷	26.67 ¹⁰⁹	26.31 ⁵	59.21 ³²²	14.689 ¹⁰⁸	55.00 ⁷³
29	6.106 ¹¹¹	68.65 ²⁰⁷	15.861 ¹²³	27.76 ¹¹³	26.26 ³	55.99 ³³²	14.797 ¹⁵¹	54.27 ⁷³
Juli 9	6.217 ¹⁴⁷	66.58 ²⁰⁴	15.984 ¹⁵⁵	28.89 ¹¹¹	26.29 ¹⁰	52.67 ³³¹	14.948 ¹⁹⁰	53.54 ⁷¹
19	6.364 ¹⁷⁸	64.54 ¹⁹⁵	16.139 ¹⁸⁵	30.00 ¹⁰⁷	26.39 ¹⁸	49.36 ³²¹	15.138 ²²⁷	52.83 ⁶⁹
29	6.542 ²⁰⁷	62.59 ¹⁷⁹	16.324 ²¹¹	31.07 ⁹⁸	26.57 ²⁵	46.15 ³⁰¹	15.365 ²⁵⁹	52.14 ⁶⁶
Aug. 8	6.749 ²³¹	60.80 ¹⁵⁷	16.535 ²³⁵	32.05 ⁸⁵	26.82 ³¹	43.14 ²⁷²	15.624 ²⁸⁶	51.48 ⁶²
18	6.980 ²⁵³	59.23 ¹²⁸	16.770 ²⁵⁴	32.90 ⁶⁷	27.13 ³⁷	40.42 ²³²	15.910 ³¹⁰	50.86 ⁵⁹
28	7.233 ²⁷⁰	57.95 ⁹³	17.024 ²⁷¹	33.57 ⁴⁵	27.50 ⁴³	38.10 ¹⁸³	16.220 ³³⁰	50.27 ⁵⁶
Sept. 7	7.503 ²⁸⁵	57.02 ⁵⁴	17.295 ²⁸⁴	34.02 ²¹	27.93 ⁴⁶	36.27 ¹²⁸	16.550 ³⁴⁶	49.71 ⁵³
17	7.788 ²⁹⁵	56.48 ¹²	17.579 ²⁹⁵	34.23 ⁶	28.39 ⁴⁹	34.99 ⁶⁷	16.896 ³⁵⁸	49.18 ⁵⁰
27	8.083 ³⁰²	56.36 ³⁴	17.874 ³⁰²	34.17 ³³	28.88 ⁵¹	34.32 ²	17.254 ³⁶⁸	48.68 ⁴⁶
Okt. 7	8.385 ³⁰³	56.70 ⁷⁸	18.176 ³⁰⁵	33.84 ⁶¹	29.39 ⁵¹	34.30 ⁶⁵	17.622 ³⁷²	48.22 ⁴¹
17	8.688 ³⁰¹	57.48 ¹²⁰	18.481 ³⁰⁵	33.23 ⁸⁷	29.90 ⁵⁰	34.95 ¹³⁰	17.994 ³⁷¹	47.81 ³⁴
27	8.989 ²⁹²	58.68 ¹⁶⁰	18.786 ²⁹⁹	32.36 ¹⁰⁹	30.40 ⁴⁷	36.25 ¹⁹¹	18.365 ³⁶⁶	47.47 ²⁵
Nov. 6	9.281 ²⁷⁷	60.28 ¹⁹³	19.085 ²⁸⁷	31.27 ¹²⁸	30.87 ⁴³	38.16 ²⁴⁷	18.731 ³⁵³	47.22 ¹⁴
16	9.558 ²⁵⁵	62.21 ²²⁰	19.372 ²⁶⁹	29.99 ¹⁴¹	31.30 ³⁷	40.63 ²⁹⁴	19.084 ³³³	47.08 ¹
26	9.813 ²²⁸	64.41 ²³⁹	19.641 ²⁴⁵	28.58 ¹⁴⁸	31.67 ³⁰	43.57 ³³⁰	19.417 ³⁰⁴	47.07 ¹³
Dez. 6	10.041 ¹⁹²	66.80 ²⁴⁹	19.886 ²¹³	27.10 ¹⁵⁰	31.97 ²²	46.87 ³⁵⁶	19.721 ²⁶⁷	47.20 ²⁸
16	10.233 ¹⁵²	69.29 ²⁵⁰	20.099 ¹⁷⁴	25.60 ¹⁴⁷	32.19 ¹⁴	50.43 ³⁷⁰	19.988 ²²²	47.48 ⁴³
26	10.385 ¹⁰⁶	71.79 ²⁴⁴	20.273 ¹³¹	24.13 ¹³⁸	32.33 ⁵	54.13 ³⁷⁰	20.210 ¹⁷⁰	47.91 ⁵⁷
35	10.491	74.23	20.404	22.75	32.38	57.83	20.380	48.48
Mittl. Ort	6.395	75.50	15.845	20.12	29.09	61.27	14.621	45.89
sec δ , tg δ	1.044	—0.299	1.001	+0.043	2.121	—1.870	1.207	+0.676
a, a'	+2.7	—3.7	+3.1	—3.8	+0.6	—4.1	+4.0	—4.2
b, b'	0.00	—0.98	0.00	—0.98	+0.03	—0.98	—0.01	—0.98

1) Ort des Hauptsterns; die jährliche Parallaxe (0.38'') ist bereits berücksichtigt.

Tag	266) ♀ Canis maj.		265) ♂ Lynceis		268) ♂ Canis maj.		269) ♂ Geminorum	
	A.R.	Dekl.	A.R.	Dekl.	A.R.	Dekl.	A.R.	Dekl.
1931	6 ^h 50 ^m	—11° 56'	6 ^h 51 ^m	+58° 30'	6 ^h 55 ^m	—28° 52'	7 ^h 0 ^m	+20° 40'
Jan. 1	60.121	56.30	20.730	62.05	56.026	29.74	2.218	29.28
10	60.216	58.41	20.910	64.12	56.107	32.65	2.352	29.08
20	60.262	60.36	21.000	66.24	56.135	35.39	2.434	29.00
30	60.258	62.10	20.999	68.33	56.109	37.90	2.463	29.04
Feb. 9	60.207	63.59	20.911	70.30	56.033	40.11	2.440	29.18
19	60.115	64.82	20.745	72.07	55.913	41.98	2.371	29.38
März 1	59.989	65.78	20.512	73.57	55.754	43.47	2.262	29.63
11	59.835	66.44	20.228	74.74	55.568	44.57	2.122	29.89
21	59.665	66.81	19.911	75.52	55.363	45.27	1.962	30.13
31	59.489	66.90	19.579	75.90	55.150	45.55	1.792	30.35
Apr. 10	59.315	66.71	19.251	75.86	54.939	45.42	1.625	30.52
20	59.154	66.24	18.946	75.41	54.740	44.89	1.470	30.65
30	59.013	65.52	18.677	74.59	54.562	43.98	1.336	30.74
Mai 10	58.900	64.55	18.458	73.43	54.411	42.70	1.230	30.79
20	58.819	63.34	18.300	71.97	54.292	41.09	1.159	30.82
30	58.773	61.93	18.209	70.28	54.211	39.18	1.126	30.84
Juni 9	58.765	60.35	18.189	68.42	54.170	37.02	1.133	30.85
19	58.795	58.63	18.242	66.43	54.170	34.66	1.180	30.86
29	58.862	56.82	18.368	64.37	54.212	32.17	1.267	30.89
Juli 9	58.965	54.97	18.563	62.31	54.293	29.60	1.391	30.91
19	59.103	53.13	18.823	60.29	54.414	27.04	1.550	30.93
29	59.271	51.35	19.142	58.35	54.571	24.56	1.741	30.93
Aug. 8	59.468	49.70	19.515	56.53	54.761	22.25	1.961	30.90
18	59.690	48.25	19.936	54.86	54.982	20.17	2.207	30.83
28	59.934	47.06	20.398	53.37	55.231	18.43	2.474	30.69
Sept. 7	60.197	46.18	20.893	52.09	55.503	17.07	2.760	30.48
17	60.475	45.65	21.416	51.05	55.794	16.17	3.063	30.17
27	60.765	45.51	21.961	50.25	56.100	15.78	3.378	29.76
Okt. 7	61.064	45.78	22.519	49.72	56.417	15.91	3.703	29.26
17	61.367	46.46	23.083	49.48	56.739	16.58	4.035	28.67
27	61.670	47.53	23.645	49.54	57.060	17.77	4.369	28.00
Nov. 6	61.967	48.95	24.195	49.91	57.373	19.46	4.699	27.29
16	62.252	50.69	24.723	50.60	57.671	21.58	5.021	26.57
26	62.518	52.67	25.216	51.60	57.947	24.06	5.326	25.87
Dez. 6	62.758	54.83	25.662	52.90	58.193	26.81	5.607	25.22
16	62.966	57.07	26.048	54.47	58.401	29.74	5.857	24.66
26	63.135	59.34	26.363	56.26	58.564	32.75	6.068	24.22
35*)	63.259	61.54	26.597	58.23	58.678	35.74	6.233	23.91
Mittl. Ort	59.052	63.59	18.479	55.63	54.797	37.77	1.092	22.99
sec δ, tg δ	1.022	—0.212	1.915	+1.633	1.142	—0.552	1.069	—0.377
a, a'	+2.8	—4.4	+5.2	—4.5	+2.4	—4.8	+3.6	—5.2
b, b'	0.00	—0.98	—0.02	—0.98	+0.01	—0.97	—0.01	—0.97

*) Bei Stern 268) und 269) lies Dez. 36

Tag	271) γ Canis maj.		273) δ Canis maj.		274) β_3 Aurigae		277) λ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	7 ^h 0 ^m	—15° 31'	7 ^h 5 ^m	—26° 16'	7 ^h 6 ^m	+39° 26'	7 ^h 14 ^m	+16° 39'
Jan. 1	39.323 ¹⁰¹	41.14 ²³²	36.276 ⁹⁵	49.13 ²⁸³	56.224 ¹⁶⁵	11.00 ⁹⁴	8.839 ¹⁴⁴	64.48 ⁵¹
10	39.424 ⁵¹	43.46 ²¹⁷	36.371 ⁴²	51.96 ²⁶⁸	56.389 ¹⁰²	11.94 ¹⁰⁶	8.983 ⁹³	63.97 ³⁶
20	39.475 ¹	45.63 ¹⁹⁶	36.413 ¹¹	54.64 ²⁴⁶	56.491 ³⁹	13.00 ¹¹⁴	9.076 ⁴¹	63.61 ²²
30	39.476 ⁴⁷	47.59 ¹⁷⁰	36.402 ⁶¹	57.10 ²¹⁸	56.530 ²³	14.14 ¹¹⁴	9.117 ¹⁰	63.39 ⁸
Feb. 9	39.429 ⁸⁹	49.29 ¹⁴²	36.341 ¹⁰⁶	59.28 ¹⁸⁵	56.507 ⁸¹	15.28 ¹⁰⁹	9.107 ⁵⁷	63.31 ²
19	39.340 ¹²⁶	50.71 ¹¹²	36.235 ¹⁴⁵	61.13 ¹⁵⁰	56.426 ¹³⁰	16.37 ⁹⁹	9.050 ⁹⁸	63.33 ¹⁰
März 1	39.214 ¹⁵⁴	51.83 ⁸¹	36.090 ¹⁷³	62.63 ¹¹²	56.296 ¹⁶⁹	17.36 ⁸³	8.952 ¹³⁰	63.43 ¹⁶
11	39.060 ¹⁷²	52.64 ⁴⁹	35.917 ¹⁹⁴	63.75 ⁷³	56.127 ¹⁹⁴	18.19 ⁶⁵	8.822 ¹⁵¹	63.59 ¹⁹
21	38.888 ¹⁸⁰	53.13 ¹⁸	35.723 ²⁰³	64.48 ³⁴	55.933 ²⁰⁷	18.84 ⁴²	8.671 ¹⁶³	63.78 ²¹
31	38.708 ¹⁷⁹	53.31 ¹³	35.520 ²⁰³	64.82 ⁵	55.726 ²⁰⁷	19.26 ¹⁹	8.508 ¹⁶⁴	63.99 ²¹
Apr. 10	38.529 ¹⁶⁸	53.18 ⁴⁴	35.317 ¹⁹²	64.77 ⁴⁴	55.519 ¹⁹⁵	19.45 ⁵	8.344 ¹⁵³	64.20 ²¹
20	38.361 ¹⁴⁸	52.74 ⁷³	35.125 ¹⁷⁴	64.33 ⁸¹	55.324 ¹⁷¹	19.40 ²⁷	8.191 ¹³⁶	64.41 ²⁰
30	38.213 ¹²³	52.01 ¹⁰⁰	34.951 ¹⁴⁸	63.52 ¹¹⁵	55.153 ¹³⁹	19.13 ⁴⁸	8.055 ¹¹⁰	64.61 ¹⁹
Mai 10	38.090 ⁹²	51.01 ¹²⁶	34.803 ¹¹⁶	62.37 ¹⁴⁸	55.014 ⁹⁸	18.65 ⁶⁶	7.945 ⁷⁸	64.80 ²⁰
20	37.998 ⁵⁸	49.75 ¹⁴⁸	34.687 ⁸²	60.89 ¹⁷⁷	54.916 ⁵³	17.99 ⁸¹	7.867 ⁴³	65.00 ¹⁹
30	37.940 ²⁰	48.27 ¹⁶⁸	34.605 ⁴³	59.12 ²⁰²	54.863 ⁶	17.18 ⁹³	7.824 ⁶	65.19 ²¹
Juni 9	37.920 ¹⁸	46.59 ¹⁸³	34.562 ⁴	57.10 ²²²	54.857 ⁴²	16.25 ¹⁰¹	7.818 ³³	65.40 ²¹
19	37.938 ⁵⁵	44.76 ¹⁹⁴	34.558 ³⁶	54.88 ²³⁶	54.899 ⁹¹	15.24 ¹⁰⁷	7.851 ⁷¹	65.61 ²²
29	37.993 ⁹¹	42.82 ¹⁹⁹	34.594 ⁷⁵	52.52 ²⁴⁴	54.990 ¹³⁶	14.17 ¹⁰⁹	7.922 ¹⁰⁷	65.83 ²²
Juli 9	38.084 ¹²⁶	40.83 ¹⁹⁹	34.669 ¹¹³	50.08 ²⁴⁴	55.126 ¹⁷⁹	13.08 ¹¹⁰	8.029 ¹⁴¹	66.05 ²⁰
19	38.210 ¹⁵⁸	38.84 ¹⁹²	34.782 ¹⁴⁸	47.64 ²³⁷	55.305 ²¹⁹	11.98 ¹⁰⁸	8.170 ¹⁷³	66.25 ¹⁷
29	38.368 ¹⁸⁸	36.92 ¹⁷⁹	34.930 ¹⁸¹	45.27 ²²²	55.524 ²⁵⁵	10.90 ¹⁰⁶	8.343 ²⁰²	66.42 ¹²
Aug. 8	38.556 ²¹⁴	35.13 ¹⁵⁹	35.111 ²¹²	43.05 ²⁰⁰	55.779 ²⁸⁷	9.84 ¹⁰¹	8.545 ²²⁷	66.54 ⁵
18	38.770 ²³⁸	33.54 ¹³²	35.323 ²³⁸	41.05 ¹⁶⁹	56.066 ³¹⁴	8.83 ⁹⁷	8.772 ²⁵¹	66.59 ⁵
28	39.008 ²⁵⁹	32.22 ¹⁰⁰	35.561 ²⁶³	39.36 ¹³²	56.380 ³³⁸	7.86 ⁹¹	9.023 ²⁷⁰	66.54 ¹⁵
Sept. 7	39.267 ²⁷⁶	31.22 ⁶²	35.824 ²⁸³	38.04 ⁸⁸	56.718 ³⁵⁹	6.95 ⁸⁴	9.293 ²⁸⁸	66.39 ²⁹
17	39.543 ²⁸⁹	30.60 ²¹	36.107 ²⁹⁹	37.16 ⁴¹	57.077 ³⁷⁶	6.11 ⁷⁷	9.581 ³⁰²	66.10 ⁴³
27	39.832 ³⁰⁰	30.39 ²²	36.406 ³¹¹	36.75 ¹⁰	57.453 ³⁸⁸	5.34 ⁶⁸	9.883 ³¹⁵	65.67 ⁵⁶
Okt. 7	40.132 ³⁰⁶	30.61 ⁶⁷	36.717 ³¹⁸	36.85 ⁶³	57.841 ³⁹⁷	4.66 ⁵⁸	10.198 ³²³	65.11 ⁷⁰
17	40.438 ³⁰⁷	31.28 ¹⁰⁹	37.035 ³¹⁹	37.48 ¹¹³	58.238 ⁴⁰⁰	4.08 ⁴⁵	10.521 ³²⁷	64.41 ⁸¹
27	40.745 ³⁰²	32.37 ¹⁴⁸	37.354 ³¹⁴	38.61 ¹⁶¹	58.638 ³⁹⁷	3.63 ³⁰	10.848 ³²⁷	63.60 ⁹⁰
Nov. 6	41.047 ²⁹¹	33.85 ¹⁸²	37.668 ³⁰¹	40.22 ²⁰⁴	59.035 ³⁸⁶	3.33 ¹⁴	11.175 ³²¹	62.70 ⁹⁵
16	41.338 ²⁷³	35.67 ²¹⁰	37.969 ²⁸¹	42.26 ²³⁹	59.421 ³⁶⁷	3.19 ⁵	11.496 ³⁰⁶	61.75 ⁹⁶
26	41.611 ²⁴⁸	37.77 ²³¹	38.250 ²⁵³	44.65 ²⁶⁷	59.788 ³⁴⁰	3.24 ²⁵	11.802 ²⁸⁴	60.79 ⁹³
Dez. 6	41.859 ²¹⁵	40.08 ²⁴²	38.503 ²¹⁸	47.32 ²⁸⁴	60.128 ³⁰³	3.49 ⁴⁵	12.086 ²⁵⁵	59.86 ⁸⁶
16	42.074 ¹⁷⁶	42.50 ²⁴⁶	38.721 ¹⁷⁵	50.16 ²⁹³	60.431 ²⁵⁶	3.94 ⁶⁴	12.341 ²¹⁹	59.00 ⁷⁵
26	42.250 ¹³¹	44.96 ²⁴²	38.896 ¹²⁷	53.09 ²⁹¹	60.687 ²⁰²	4.58 ⁸³	12.560 ¹⁷⁴	58.25 ⁶²
36	42.381	47.38	39.023	56.00	60.889	5.41	12.734	57.63
Mittl. Ort	38.243	48.77	35.101	57.43	54.783	5.49	7.749	58.45
sec δ , tg δ	1.038	—0.278	1.115	—0.494	1.295	+0.822	1.044	+0.299
a , a'	+2.7	—5.2	+2.4	—5.7	+4.1	—5.8	+3.5	—6.4
b , b'	0.00	—0.97	+0.01	—0.96	—0.02	—0.96	—0.01	—0.95

Tag	278) π Argus		279) δ Geminorum		281) δ Volantis		280) γ Lynceis sq.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$7^h 14^m$	$-36^\circ 57'$	$7^h 16^m$	$+22^\circ 6'$	$7^h 16^m$	$-67^\circ 49'$	$7^h 17^m$	$+55^\circ 24'$
Jan. 1	43.625 ¹⁰	72.44 ³²⁶	41.413 ¹⁰	45.14 ¹⁷	55.45 ¹⁰	40.65 ³⁷⁶	16.809 ¹⁰	52.78 ¹⁸²
10	43.718 ³⁵	75.70 ³¹²	1.565 ⁹⁹	44.97 ³	55.47 ²	44.41 ³⁶⁷	17.025 ¹³³	54.60 ¹⁹⁴
20	43.753 ²⁴	78.82 ²⁹¹	1.664 ⁴⁵	44.94 ¹¹	55.38 ²⁰	48.08 ³⁴⁸	17.158 ⁴⁷	56.54 ¹⁹⁹
30	43.729 ⁷⁸	81.73 ²⁶¹	1.709 ⁸	45.05 ²²	55.18 ³⁰	51.56 ³¹⁹	17.205 ³⁶	58.53 ¹⁹⁴
Feb. 9	43.651 ¹²⁹	84.34 ²²⁷	1.701 ⁵⁶	45.27 ²⁹	54.88 ⁴⁰	54.75 ²⁸⁴	17.169 ¹¹³	60.47 ¹⁸¹
19	43.522 ¹⁷⁰	86.61 ¹⁸⁸	1.645 ⁹⁹	45.56 ³⁴	54.48 ⁴⁷	57.59 ²⁴²	17.056 ¹⁸⁰	62.28 ¹⁶¹
März 1	43.352 ²⁰⁴	88.49 ¹⁴⁶	1.546 ¹³²	45.90 ³⁴	54.01 ⁵³	60.01 ¹⁹⁵	16.876 ²³⁴	63.89 ¹³⁴
11	43.148 ²²⁷	89.95 ¹⁰¹	1.414 ¹⁵⁶	46.24 ³³	53.48 ⁵⁸	61.96 ¹⁴⁵	16.642 ²⁷³	65.23 ¹⁰¹
21	42.921 ²³⁸	90.96 ⁵⁶	1.258 ¹⁶⁷	46.57 ²⁹	52.90 ⁶⁰	63.41 ⁹²	16.369 ²⁹³	66.24 ⁶⁴
31	42.683 ²⁴¹	91.52 ¹¹	1.091 ¹⁶⁹	46.86 ²⁴	52.30 ⁶¹	64.33 ³⁹	16.076 ²⁹⁸	66.88 ²⁵
Apr. 10	42.442 ²³¹	91.63 ³⁴	0.922 ¹⁵⁹	47.10 ¹⁷	51.69 ⁶⁰	64.72 ¹⁵	15.778 ²⁸⁶	67.13 ¹³
20	42.211 ²¹⁴	91.29 ⁷⁸	0.763 ¹⁴⁰	47.27 ¹¹	51.09 ⁵⁷	64.57 ⁶⁷	15.492 ²⁵⁸	67.00 ⁵⁰
30	41.997 ¹⁸⁸	90.51 ¹²⁰	0.623 ¹¹⁵	47.38 ⁵	50.52 ⁵³	63.90 ¹¹⁹	15.234 ²¹⁸	66.50 ⁸⁵
Mai 10	41.809 ¹⁵⁷	89.31 ¹⁵⁸	0.508 ⁸¹	47.43 ⁰	49.99 ⁴⁹	62.71 ¹⁶⁶	15.016 ¹⁶⁸	65.65 ¹¹⁶
20	41.652 ¹¹⁹	87.73 ¹⁹³	0.427 ⁴⁵	47.43 ³	49.50 ⁴¹	61.05 ²⁰⁹	14.848 ¹¹¹	64.49 ¹⁴³
30	41.533 ⁷⁹	85.80 ²²³	0.382 ⁷	47.40 ⁶	49.09 ³³	58.96 ²⁴⁸	14.737 ⁴⁹	63.06 ¹⁶⁴
Juni 9	41.454 ³⁷	83.57 ²⁴⁸	0.375 ³³	47.34 ⁸	48.76 ²⁵	56.48 ²⁷⁹	14.688 ¹⁶	61.42 ¹⁸⁰
19	41.417 ⁷	81.09 ²⁶⁵	0.408 ⁷²	47.26 ⁹	48.51 ¹⁷	53.69 ³⁰⁵	14.704 ⁸⁰	59.62 ¹⁹¹
29	41.424 ⁵⁰	78.44 ²⁷⁷	0.480 ¹¹⁰	47.17 ¹¹	48.34 ⁷	50.64 ³²⁰	14.784 ¹⁴³	57.71 ¹⁹⁷
Juli 9	41.474 ⁹³	75.67 ²⁷⁹	0.590 ¹⁴⁵	47.06 ¹³	48.27 ³	47.44 ³²⁸	14.927 ²⁰⁴	55.74 ²⁰⁰
19	41.567 ¹³⁴	72.88 ²⁷⁴	0.735 ¹⁷⁸	46.93 ¹⁵	48.30 ¹²	44.16 ³²⁵	15.131 ²⁵⁹	53.74 ¹⁹⁶
29	41.701 ¹⁷³	70.14 ²⁵⁹	0.913 ²⁰⁸	46.78 ¹⁸	48.42 ²²	40.91 ³¹²	15.390 ³¹⁰	51.78 ¹⁸⁹
Aug. 8	41.874 ²¹⁰	67.55 ²³⁵	1.121 ²³⁴	46.60 ²⁴	48.64 ³⁰	37.79 ²⁸⁹	15.700 ³⁵⁷	49.89 ¹⁸⁰
18	42.084 ²⁴²	65.20 ²⁰⁴	1.355 ²⁵⁸	46.36 ³⁰	48.94 ³⁹	34.90 ²⁵⁵	16.057 ³⁹⁸	48.09 ¹⁶⁷
28	42.326 ²⁷³	63.16 ¹⁶⁴	1.613 ²⁷⁹	46.06 ³⁷	49.33 ⁴⁶	32.35 ²¹³	16.455 ⁴³³	46.42 ¹⁵¹
Sept. 7	42.599 ²⁹⁸	61.52 ¹¹⁶	1.892 ²⁹⁷	45.69 ⁴⁵	49.79 ⁵³	30.22 ¹⁶²	16.888 ⁴⁶⁴	44.91 ¹³³
17	42.897 ³¹⁸	60.36 ⁶³	2.189 ³¹³	45.24 ⁵⁵	50.32 ⁵⁷	28.60 ¹⁰³	17.352 ⁴⁹⁰	43.58 ¹¹³
27	43.215 ³³³	59.73 ⁷	2.502 ³²⁵	44.69 ⁶³	50.89 ⁶¹	27.57 ⁴⁰	17.842 ⁵⁰⁹	42.45 ⁸⁹
Okt. 7	43.548 ³⁴³	59.66 ⁵²	2.827 ³³⁴	44.06 ⁷¹	51.50 ⁶²	27.17 ²⁷	18.351 ⁵²¹	41.56 ⁶⁴
17	43.891 ³⁴⁵	60.18 ¹⁰⁹	3.161 ³³⁹	43.35 ⁷⁷	52.12 ⁶²	27.44 ⁹⁴	18.872 ⁵²⁶	40.92 ³⁶
27	44.236 ³³⁹	61.27 ¹⁶⁵	3.500 ³³⁹	42.58 ⁷⁹	52.74 ⁶⁰	28.38 ¹⁵⁸	19.398 ⁵²³	40.56 ⁶
Nov. 6	44.575 ³²⁵	62.92 ²¹⁵	3.839 ³³²	41.79 ⁷⁹	53.34 ⁵⁵	29.96 ²¹⁸	19.921 ⁵¹⁰	40.50 ²⁵
16	44.900 ³⁰²	65.07 ²⁵⁸	4.171 ³¹⁸	41.00 ⁷⁵	53.89 ⁴⁹	32.14 ²⁷⁰	20.431 ⁴⁸⁴	40.75 ⁵⁷
26	45.202 ²⁷⁰	67.65 ²⁹¹	4.489 ²⁹⁶	40.25 ⁶⁸	54.38 ⁴¹	34.84 ³¹⁵	20.915 ⁴⁴⁷	41.32 ⁸⁸
Dez. 6	45.472 ²³⁰	70.56 ³¹⁵	4.785 ²⁶⁷	39.57 ⁵⁷	54.79 ³²	37.99 ³⁴⁷	21.362 ³⁹⁸	42.20 ¹¹⁹
16	45.702 ¹⁸²	73.71 ³²⁹	5.052 ²²⁸	39.00 ⁴⁴	55.11 ²¹	41.46 ³⁶⁹	21.760 ³³⁷	43.39 ¹⁴⁵
26	45.884 ¹²⁹	77.00 ³³²	5.280 ¹⁸³	38.56 ²⁹	55.32 ¹⁰	45.15 ³⁷⁸	22.097 ²⁶⁴	44.84 ¹⁶⁸
36	46.013	80.32	5.463	38.27	55.42	48.93	22.361	46.52
Mittl. Ort	42.298	81.76	0.270	39.44	52.33	51.85	14.706	48.29
sec δ , tg δ	1.252	-0.753	1.079	$+0.406$	2.650	-2.454	1.762	$+1.450$
α , α'	$+2.1$	-6.4	$+3.6$	-6.5	0.0	-6.6	$+4.9$	-6.6
b , b'	$+0.02$	-0.95	-0.01	-0.95	$+0.05$	-0.94	-0.03	-0.94

Tag	282) ϵ Geminorum		285) β Canis min.		284) Grb 1308		286) ρ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$7^h 21^m$	$+27^\circ 56'$	$7^h 23^m$	$+8^\circ 25'$	$7^h 23^m$	$+68^\circ 36'$	$7^h 24^m$	$+31^\circ 55'$
Jan. I	27.876 ¹⁶⁵	17.68 ¹⁸	25.647 ¹⁴⁵	53.28 ¹⁰⁵	46.56 ³⁰	36.67 ²⁴⁴	41.876 ¹⁷⁵	29.13 ⁴²
II	28.041 ¹¹⁰	17.86 ³³	25.792 ⁹⁶	52.23 ⁸⁹	46.86 ¹⁸	39.11 ²⁵⁵	42.051 ¹¹⁷	29.55 ⁵⁸
20	28.151 ⁵³	18.19 ⁴⁵	25.888 ⁴⁵	51.34 ⁷³	47.04 ⁴	41.66 ²⁵⁸	42.168 ⁵⁸	30.13 ⁶⁹
30	28.204 ³	18.64 ⁵⁴	25.933 ⁵	50.61 ⁵⁶	47.08 ⁸	44.24 ²⁵⁰	42.226 ⁰	30.82 ⁷⁷
Feb. 9	28.201 ⁵⁵	19.18 ⁵⁸	25.928 ⁵¹	50.05 ⁴⁰	47.00 ²⁰	46.74 ²³²	42.226 ⁵⁴	31.59 ⁸⁰
I9	28.146 ¹⁰⁰	19.76 ⁵⁹	25.877 ⁹⁰	49.65 ²⁵	46.80 ³⁰	49.06 ²⁰⁴	42.172 ¹⁰¹	32.39 ⁷⁸
März I	28.046 ¹³⁵	20.35 ⁵⁶	25.787 ¹²³	49.40 ¹²	46.50 ³⁸	51.10 ¹⁶⁸	42.071 ¹⁴⁰	33.17 ⁷¹
II	27.911 ¹⁶¹	20.91 ⁴⁹	25.664 ¹⁴⁵	49.28 ⁰	46.12 ⁴⁵	52.78 ¹²⁶	41.931 ¹⁶⁵	33.88 ⁶⁰
21	27.750 ¹⁷⁵	21.40 ³⁹	25.519 ¹⁵⁷	49.28 ¹⁰	45.67 ⁴⁸	54.04 ⁷⁹	41.766 ¹⁸¹	34.48 ⁴⁷
31	27.575 ¹⁷⁷	21.79 ²⁷	25.362 ¹⁵⁹	49.38 ¹⁹	45.19 ⁴⁹	54.83 ³⁰	41.585 ¹⁸⁵	34.95 ³²
Apr. 10	27.398 ¹⁶⁸	22.06 ¹⁵	25.203 ¹⁵¹	49.57 ²⁶	44.70 ⁴⁸	55.13 ²⁰	41.400 ¹⁷⁶	35.27 ¹⁵
20	27.230 ¹⁵⁰	22.21 ³	25.052 ¹³⁵	49.83 ³⁴	44.22 ⁴⁴	54.93 ⁶⁷	41.224 ¹⁵⁷	35.42 ²
30	27.080 ¹²⁴	22.24 ⁸	24.917 ¹¹²	50.17 ⁴¹	43.78 ³⁹	54.26 ¹¹²	41.067 ¹³¹	35.40 ¹⁷
Mai 10	26.956 ⁹⁰	22.16 ¹⁹	24.805 ⁸³	50.58 ⁴⁶	43.39 ³²	53.14 ¹⁵¹	40.936 ⁹⁷	35.23 ³¹
20	26.866 ⁵²	21.97 ²⁸	24.722 ⁵⁰	51.04 ⁵³	43.07 ²³	51.63 ¹⁸⁶	40.839 ⁵⁸	34.92 ⁴²
30	26.814 ¹³	21.69 ³⁴	24.672 ¹⁵	51.57 ⁵⁸	42.84 ¹⁴	49.77 ²¹⁴	40.781 ¹⁷	34.50 ⁵²
Juni 9	26.801 ²⁸	21.35 ⁴⁰	24.657 ²¹	52.15 ⁶³	42.70 ⁵	47.63 ²³⁵	40.764 ²⁵	33.98 ⁶⁰
19	26.829 ⁷⁰	20.95 ⁴⁴	24.678 ⁵⁷	52.78 ⁶⁶	42.65 ⁶	45.28 ²⁵⁰	40.789 ⁶⁸	33.38 ⁶⁶
29	26.899 ¹⁰⁹	20.51 ⁴⁶	24.735 ⁹²	53.44 ⁶⁶	42.71 ¹⁶	42.78 ²⁵⁹	40.857 ¹⁰⁹	32.72 ⁷⁰
Juli 9	27.008 ¹⁴⁶	20.05 ⁴⁹	24.827 ¹²⁵	54.10 ⁶⁵	42.87 ²⁵	40.19 ²⁶¹	40.966 ¹⁴⁹	32.02 ⁷³
19	27.154 ¹⁸⁰	19.56 ⁵¹	24.952 ¹⁵⁶	54.75 ⁶¹	43.12 ³⁴	37.58 ²⁵⁷	41.115 ¹⁸⁴	31.29 ⁷⁵
29	27.334 ²¹²	19.05 ⁵⁴	25.108 ¹⁸³	55.36 ⁵⁴	43.46 ⁴³	35.01 ²⁴⁸	41.299 ²¹⁷	30.54 ⁷⁶
Aug. 8	27.546 ²⁴¹	18.51 ⁵⁶	25.291 ²¹⁰	55.90 ⁴²	43.89 ⁵⁰	32.53 ²³⁴	41.516 ²⁴⁶	29.78 ⁷⁸
18	27.787 ²⁶⁶	17.95 ⁶⁰	25.501 ²³³	56.32 ²⁹	44.39 ⁵⁷	30.19 ²¹⁶	41.762 ²⁷⁴	29.00 ⁷⁹
28	28.053 ²⁸⁸	17.35 ⁶³	25.734 ²⁵³	56.61 ¹²	44.96 ⁶⁴	28.03 ¹⁹²	42.036 ²⁹⁸	28.21 ⁸⁰
Sept. 7	28.341 ³⁰⁸	16.72 ⁶⁷	25.987 ²⁷²	56.73 ⁸	45.60 ⁶⁸	26.11 ¹⁶⁶	42.334 ³¹⁹	27.41 ⁸¹
17	28.649 ³²⁵	16.05 ⁷¹	26.259 ²⁸⁸	56.65 ²⁹	46.28 ⁷³	24.45 ¹³⁶	42.653 ³³⁷	26.60 ⁸¹
27	28.974 ³³⁹	15.34 ⁷⁴	26.547 ³⁰¹	56.36 ⁵²	47.01 ⁷⁶	23.09 ¹⁰³	42.990 ³⁵¹	25.79 ⁸⁰
Okt. 7	29.313 ³⁴⁹	14.60 ⁷⁵	26.848 ³¹¹	55.84 ⁷³	47.77 ⁷⁷	22.06 ⁶⁷	43.341 ³⁶²	24.99 ⁷⁷
17	29.662 ³⁵⁵	13.85 ⁷⁵	27.159 ³¹⁶	55.11 ⁹³	48.54 ⁷⁹	21.39 ²⁹	43.703 ³⁶⁹	24.22 ⁷³
27	30.017 ³⁵⁵	13.10 ⁷²	27.475 ³¹⁷	54.18 ¹¹¹	49.33 ⁷⁸	21.10 ¹¹	44.072 ³⁷⁰	23.49 ⁶⁶
Nov. 6	30.372 ³⁴⁹	12.38 ⁶⁵	27.792 ³¹²	53.07 ¹²⁴	50.11 ⁷⁵	21.21 ⁵³	44.442 ³⁶⁵	22.83 ⁵⁶
16	30.721 ³³⁶	11.73 ⁵⁶	28.104 ²⁹⁹	51.83 ¹³²	50.86 ⁷¹	21.74 ⁹⁴	44.807 ³⁴⁹	22.27 ⁴²
26	31.057 ³¹⁴	11.17 ⁴⁴	28.403 ²⁸⁰	50.51 ¹³⁶	51.57 ⁶⁶	22.68 ¹³⁴	45.156 ³²⁸	21.85 ²⁷
Dez. 6	31.371 ²⁸³	10.73 ²⁹	28.683 ²⁵²	49.15 ¹³⁴	52.23 ⁵⁸	24.02 ¹⁷¹	45.484 ²⁹⁶	21.58 ⁸
16	31.654 ²⁴³	10.44 ¹²	28.935 ²¹⁶	47.81 ¹²⁸	52.81 ⁴⁸	25.73 ²⁰³	45.780 ²⁵⁶	21.50 ¹⁰
26	31.897 ¹⁹⁷	10.32 ⁵	29.151 ¹⁷⁴	46.53 ¹¹⁵	53.29 ³⁸	27.76 ²²⁸	46.036 ²⁰⁸	21.60 ²⁸
36	32.094	10.37	29.325	45.38	53.67	30.04	46.244	21.88
Mittl. Ort	26.658	12.49	24.614	46.97	43.07	32.86	40.591	24.31
see δ , tg δ	1.132	$+0.530$	1.011	$+0.148$	2.742	$+2.553$	1.178	$+0.623$
a, a'	$+3.7$	-7.0	$+3.3$	-7.1	$+6.3$	-7.2	$+3.8$	-7.2
b, b'	-0.01	-0.94	0.00	-0.93	-0.06	-0.93	-0.01	-0.93

Tag	287) α Geminorum ¹⁾		289) 25 Monocerotis		291) α Canis min. ²⁾		292) 24 Lyncis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	7 ^h 30 ^m	+32° 2'	7 ^h 33 ^m	-3° 57'	7 ^h 35 ^m	+5° 24'	7 ^h 37 ^m	+58° 52'
Jan. 1	13.237 ¹⁸⁰	35.34 ⁴⁰	51.884 ¹⁴⁴	13.21 ¹⁸¹	42.540 ¹⁴⁹	17.77 ¹³⁰	13.158 ²⁶⁴	28.68 ¹⁹¹
11	13.417 ¹²³	35.74 ⁵⁶	52.028 ⁹⁵	15.02 ¹⁶⁷	42.689 ¹⁰¹	16.47 ¹¹⁴	13.422 ¹⁷⁴	30.59 ²⁰⁷
20	13.540 ⁶⁴	36.30 ⁶⁹	52.123 ⁴⁵	16.69 ¹⁴⁸	42.790 ⁵⁰	15.33 ⁹⁶	13.596 ⁸¹	32.66 ²¹⁵
30	13.604 ⁵	36.99 ⁷⁷	52.168 ⁴	18.17 ¹²⁷	42.840 ⁰	14.37 ⁷⁷	13.677 ¹¹	34.81 ²¹⁵
Feb. 9	13.609 ⁴⁹	37.76 ⁸¹	52.164 ⁴⁹	19.44 ¹⁰⁴	42.840 ⁴⁶	13.60 ⁵⁸	13.666 ⁹⁸	36.96 ²⁰⁵
19	13.560 ⁹⁷	38.57 ⁸⁰	52.115 ⁹⁰	20.48 ⁸¹	42.794 ⁸⁷	13.02 ⁴¹	13.568 ¹⁷⁶	39.01 ¹⁸⁶
März 1	13.463 ¹³⁷	39.37 ⁷³	52.025 ¹²¹	21.29 ⁵⁸	42.707 ¹¹⁹	12.61 ²⁵	13.392 ²⁴⁰	40.87 ¹⁵⁹
11	13.326 ¹⁶⁴	40.10 ⁶³	51.904 ¹⁴⁴	21.87 ³⁵	42.588 ¹⁴²	12.36 ⁹	13.152 ²⁸⁸	42.46 ¹²⁶
21	13.162 ¹⁸⁰	40.73 ⁵⁰	51.760 ¹⁵⁸	22.22 ¹⁴	42.446 ¹⁵⁶	12.27 ³	12.864 ³¹⁷	43.72 ⁸⁸
31	12.982 ¹⁸⁵	41.23 ³⁴	51.602 ¹⁶²	22.36 ⁷	42.290 ¹⁵⁸	12.30 ¹⁵	12.547 ³²⁹	44.60 ⁴⁷
Apr. 10	12.797 ¹⁷⁷	41.57 ¹⁷	51.440 ¹⁵⁵	22.29 ²⁷	42.132 ¹⁵³	12.45 ²⁵	12.218 ³²³	45.07 ⁵
20	12.620 ¹⁶⁰	41.74 ¹	51.285 ¹⁴²	22.02 ⁴⁶	41.979 ¹³⁸	12.70 ³⁵	11.895 ³⁰⁰	45.12 ³⁶
30	12.460 ¹³⁴	41.75 ¹⁵	51.143 ¹²¹	21.56 ⁶⁴	41.841 ¹¹⁶	13.05 ⁴⁴	11.595 ²⁶³	44.76 ⁷⁶
Mai 10	12.326 ¹⁰²	41.60 ³⁰	51.022 ⁹⁴	20.92 ⁸⁰	41.725 ⁸⁸	13.49 ⁵³	11.332 ²¹⁴	44.00 ¹¹¹
20	12.224 ⁶³	41.30 ⁴²	50.928 ⁶³	20.12 ⁹⁵	41.637 ⁵⁸	14.02 ⁶¹	11.118 ¹⁵⁶	42.89 ¹⁴³
30	12.161 ²²	40.88 ⁵²	50.865 ³¹	19.17 ¹⁰⁹	41.579 ²³	14.63 ⁶⁷	10.962 ⁹³	41.46 ¹⁶⁹
Juni 9	12.139 ¹⁹	40.36 ⁶¹	50.834 ⁴	18.08 ¹¹⁹	41.556 ¹²	15.30 ⁷²	10.869 ²⁴	39.77 ¹⁹¹
19	12.158 ⁶²	39.75 ⁶⁸	50.838 ³⁸	16.89 ¹²⁷	41.568 ⁴⁶	16.02 ⁷⁵	10.845 ⁴⁴	37.86 ²⁰⁶
29	12.220 ¹⁰²	39.07 ⁷²	50.876 ⁷²	15.62 ¹³¹	41.614 ⁸¹	16.77 ⁷⁶	10.889 ¹¹²	35.80 ²¹⁷
Juli 9	12.322 ¹⁴²	38.35 ⁷⁶	50.948 ¹⁰⁵	14.31 ¹³¹	41.695 ¹¹⁴	17.53 ⁷⁵	11.001 ¹⁷⁹	33.63 ²²²
19	12.464 ¹⁷⁷	37.59 ⁷⁹	51.053 ¹³⁶	13.00 ¹²⁶	41.809 ¹⁴⁴	18.28 ⁷⁰	11.180 ²⁴¹	31.41 ²²³
29	12.641 ²¹¹	36.80 ⁸¹	51.189 ¹⁶⁴	11.74 ¹¹⁷	41.953 ¹⁷²	18.98 ⁶²	11.421 ³⁰⁰	29.18 ²¹⁹
Aug. 8	12.852 ²⁴¹	35.99 ⁸²	51.353 ¹⁹¹	10.57 ¹⁰²	42.125 ¹⁹⁹	19.60 ⁴⁹	11.721 ³⁵³	26.99 ²¹¹
18	13.093 ²⁶⁹	35.17 ⁸⁴	51.544 ²¹⁶	9.55 ⁸³	42.324 ²²²	20.09 ³⁴	12.074 ⁴⁰²	24.88 ²⁰⁰
28	13.362 ²⁹³	34.33 ⁸⁶	51.760 ²³⁸	8.72 ⁵⁹	42.546 ²⁴⁴	20.43 ¹⁵	12.476 ⁴⁴⁵	22.88 ¹⁸⁴
Sept. 7	13.655 ³¹⁴	33.47 ⁸⁷	51.998 ²⁵⁸	8.13 ³⁰	42.790 ²⁶³	20.58 ⁷	12.921 ⁴⁸⁴	21.04 ¹⁶⁶
17	13.969 ³³⁴	32.60 ⁸⁷	52.256 ²⁷⁶	7.83 ²	43.053 ²⁸¹	20.51 ³¹	13.405 ⁵¹⁵	19.38 ¹⁴⁴
27	14.303 ³⁴⁹	31.73 ⁸⁶	52.532 ²⁹⁰	7.85 ³⁵	43.334 ²⁹⁴	20.20 ⁵⁶	13.920 ⁵⁴²	17.94 ¹¹⁹
Okt. 7	14.652 ³⁶²	30.87 ⁸⁴	52.822 ³⁰²	8.20 ⁶⁸	43.628 ³⁰⁵	19.64 ⁸¹	14.462 ⁵⁶¹	16.75 ⁹¹
17	15.014 ³⁶⁹	30.03 ⁷⁹	53.124 ³⁰⁹	8.88 ¹⁰¹	43.933 ³¹³	18.83 ¹⁰⁴	15.023 ⁵⁷²	15.84 ⁶²
27	15.383 ³⁷⁰	29.24 ⁷²	53.433 ³¹¹	9.89 ¹³¹	44.246 ³¹⁵	17.79 ¹²⁴	15.595 ⁵⁷³	15.22 ²⁸
Nov. 6	15.753 ³⁶⁶	28.52 ⁶¹	53.744 ³⁰⁶	11.20 ¹⁵⁷	44.561 ³¹⁰	16.55 ¹⁴⁰	16.168 ⁵⁶³	14.94 ⁸
16	16.119 ³⁵³	27.91 ⁴⁷	54.050 ²⁹⁵	12.77 ¹⁷⁶	44.871 ²⁹⁹	15.15 ¹⁵²	16.731 ⁵⁴¹	15.02 ⁴⁴
26	16.472 ³³¹	27.44 ³¹	54.345 ²⁷⁷	14.53 ¹⁹¹	45.170 ²⁸⁰	13.63 ¹⁵⁷	17.272 ⁵⁰⁵	15.46 ⁸⁰
Dez. 6	16.803 ³⁰¹	27.13 ¹³	54.622 ²⁴⁹	16.44 ¹⁹⁷	45.450 ²⁵⁴	12.06 ¹⁵⁷	17.777 ⁴⁵⁵	16.26 ¹¹⁴
16	17.104 ²⁶¹	27.00 ⁶	54.871 ²¹³	18.41 ¹⁹⁷	45.704 ²²⁰	10.49 ¹⁵²	18.232 ³⁹²	17.40 ¹⁴⁷
26	17.365 ²¹³	27.06 ²⁶	55.084 ¹⁷³	20.38 ¹⁹¹	45.924 ¹⁷⁸	8.97 ¹⁴¹	18.624 ³¹⁶	18.87 ¹⁷⁴
36	17.578	27.32	55.257	22.29	46.102	7.56	18.940	20.61
Mittl. Ort	11.950	30.80	50.891	20.44	41.528	11.50	10.785	25.81
sec δ , tg δ	1.180	+0.626	1.002	-0.069	1.004	+0.095	1.935	+1.656
a, a'	+3.8	-7.7	+3.0	-8.0	+3.2	-8.1	+5.1	-8.2
b, b'	-0.02	-0.92	0.00	-0.92	0.00	-0.91	-0.05	-0.91

¹⁾ AR. der Mitte; Dekl. des folgenden helleren Sterns.

²⁾ Ort des hellen Sterns; die jährliche Parallaxe (0.33) ist bereits berücksichtigt.

Tag	294) α Geminorum		295) β Geminorum		297) ζ Volantis		296) π Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	7 ^h 40 ^m	+24° 33'	7 ^h 41 ^m	+28° 11'	7 ^h 42 ^m	—72° 26'	7 ^h 43 ^m	+33° 35'
Jan. 1	18.276 ¹⁸⁰	58.35 ¹¹	7.033 ¹⁸⁵	43.84 ¹¹	44.29 ⁹	13.09 ³⁷⁹	5.040 ¹⁹⁷	15.45 ⁴⁴
11	18.456 ¹²⁷	58.24 ⁶	7.218 ¹³⁰	43.95 ²⁹	44.38 ⁶	16.88 ³⁷⁷	5.237 ¹³⁹	15.89 ⁶²
20	18.583 ⁷¹	58.30 ²²	7.348 ⁷³	44.24 ⁴⁴	44.32 ²⁰	20.65 ³⁶⁵	5.376 ⁸⁰	16.51 ⁷⁶
30	18.654 ¹⁶	58.52 ³⁵	7.421 ¹⁶	44.68 ⁵⁶	44.12 ³³	24.30 ³⁴⁴	5.456 ¹⁹	17.27 ⁸⁷
Feb. 9	18.670 ³⁵	58.87 ⁴⁴	7.437 ³⁷	45.24 ⁶³	43.79 ⁴⁵	27.74 ³¹³	5.475 ³⁷	18.14 ⁹²
19	18.635 ⁸¹	59.31 ⁴⁹	7.400 ⁸⁵	45.87 ⁶⁶	43.34 ⁵⁵	30.87 ²⁷⁶	5.438 ⁸⁸	19.06 ⁹⁰
März 1	18.554 ¹¹⁹	59.80 ⁵⁰	7.315 ¹²³	46.53 ⁶⁵	42.79 ⁶³	33.63 ²³³	5.350 ¹²⁹	19.96 ⁸⁵
11	18.435 ¹⁴⁷	60.30 ⁴⁸	7.192 ¹⁵³	47.18 ⁵⁸	42.16 ⁷⁰	35.96 ¹⁸⁶	5.221 ¹⁵⁹	20.81 ⁷⁵
21	18.288 ¹⁶³	60.78 ⁴³	7.039 ¹⁶⁹	47.76 ⁴⁹	41.46 ⁷⁴	37.82 ¹³⁶	5.062 ¹⁷⁹	21.56 ⁶⁰
31	18.125 ¹⁶⁹	61.21 ³⁵	6.870 ¹⁷⁶	48.25 ³⁹	40.72 ⁷⁷	39.18 ⁸⁴	4.883 ¹⁸⁶	22.16 ⁴³
Apr. 10	17.956 ¹⁶³	61.56 ²⁶	6.694 ¹⁷¹	48.64 ²⁵	39.95 ⁷⁶	40.02 ³⁰	4.697 ¹⁸¹	22.59 ²⁵
20	17.793 ¹⁴⁹	61.82 ¹⁶	6.523 ¹⁵⁶	48.89 ¹²	39.19 ⁷⁴	40.32 ²³	4.516 ¹⁶⁶	22.84 ⁷
30	17.644 ¹²⁷	61.98 ⁷	6.367 ¹³³	49.01 ¹	38.45 ⁷¹	40.09 ⁷⁵	4.350 ¹⁴²	22.91 ¹²
Mai 10	17.517 ⁹⁷	62.05 ²	6.234 ¹⁰³	49.00 ¹²	37.74 ⁶⁶	39.34 ¹²⁶	4.208 ¹¹¹	22.79 ²⁹
20	17.420 ⁶³	62.03 ⁹	6.131 ⁶⁸	48.88 ²⁴	37.08 ⁵⁹	38.08 ¹⁷³	4.097 ⁷⁵	22.50 ⁴⁴
30	17.357 ²⁷	61.94 ¹⁶	6.063 ³⁰	48.64 ³³	36.49 ⁵⁰	36.35 ²¹⁵	4.022 ³⁵	22.06 ⁵⁶
Juni 9	17.330 ¹²	61.78 ²²	6.033 ⁹	48.31 ⁴⁰	35.99 ⁴¹	34.20 ²⁵³	3.987 ⁷	21.50 ⁶⁸
19	17.342 ⁵⁰	61.56 ²⁷	6.042 ⁴⁹	47.91 ⁴⁶	35.58 ³⁰	31.67 ²⁸³	3.994 ⁴⁸	20.82 ⁷⁶
29	17.392 ⁸⁷	61.29 ³¹	6.091 ⁸⁷	47.45 ⁵²	35.28 ¹⁹	28.84 ³⁰⁵	4.042 ⁹⁰	20.06 ⁸³
Juli 9	17.479 ¹²³	60.98 ³⁵	6.178 ¹²⁵	46.93 ⁵⁷	35.09 ⁸	25.79 ³¹⁹	4.132 ¹²⁹	19.23 ⁸⁹
19	17.602 ¹⁵⁷	60.63 ³⁹	6.303 ¹⁵⁹	46.36 ⁶¹	35.01 ⁵	22.60 ³²³	4.261 ¹⁶⁶	18.34 ⁹³
29	17.759 ¹⁸⁸	60.24 ⁴⁴	6.462 ¹⁹²	45.75 ⁶⁵	35.06 ¹⁷	19.37 ³¹⁸	4.427 ²⁰⁰	17.41 ⁹⁶
Aug. 8	17.947 ²¹⁶	59.80 ⁵⁰	6.654 ²²¹	45.10 ⁶⁹	35.23 ²⁸	16.19 ³⁰⁰	4.627 ²³²	16.45 ⁹⁸
18	18.163 ²⁴³	59.30 ⁵⁶	6.875 ²⁴⁸	44.41 ⁷⁴	35.51 ⁴⁰	13.19 ²⁷³	4.859 ²⁶¹	15.47 ¹⁰¹
28	18.406 ²⁶⁷	58.74 ⁶³	7.123 ²⁷³	43.67 ⁷⁸	35.91 ⁵¹	10.46 ²³⁶	5.120 ²⁸⁸	14.46 ¹⁰²
Sept. 7	18.673 ²⁸⁸	58.11 ⁷⁰	7.396 ²⁹⁵	42.89 ⁸³	36.42 ⁵⁹	8.10 ¹⁹⁰	5.408 ³¹¹	13.44 ¹⁰²
17	18.961 ³⁰⁷	57.41 ⁷⁸	7.691 ³¹⁵	42.06 ⁸⁸	37.01 ⁶⁷	6.20 ¹³⁶	5.719 ³³²	12.42 ¹⁰²
27	19.268 ³²⁴	56.63 ⁸⁵	8.006 ³³²	41.18 ⁹¹	37.68 ⁷²	4.84 ⁷⁵	6.051 ³⁵⁰	11.40 ¹⁰¹
Okt. 7	19.592 ³³⁷	55.78 ⁹⁰	8.338 ³⁴⁶	40.27 ⁹³	38.40 ⁷⁶	4.09 ¹⁰	6.401 ³⁶⁵	10.39 ⁹⁷
17	19.929 ³⁴⁵	54.88 ⁹⁴	8.684 ³⁵⁵	39.34 ⁹²	39.16 ⁷⁶	3.99 ⁵⁷	6.766 ³⁷⁵	9.42 ⁹¹
27	20.274 ³⁵⁰	53.94 ⁹⁴	9.039 ³⁵⁹	38.42 ⁸⁹	39.92 ⁷⁵	4.56 ¹²³	7.141 ³⁷⁹	8.51 ⁸¹
Nov. 6	20.624 ³⁴⁷	53.00 ⁹¹	9.398 ³⁵⁶	37.53 ⁸²	40.67 ⁷⁰	5.79 ¹⁸⁶	7.520 ³⁷⁶	7.70 ⁶⁹
16	20.971 ³³⁷	52.09 ⁸³	9.754 ³⁴⁵	36.71 ⁷¹	41.37 ⁶⁴	7.65 ²⁴⁴	7.896 ³⁶⁵	7.01 ⁵⁴
26	21.308 ³¹⁸	51.26 ⁷⁴	10.099 ³²⁷	36.00 ⁵⁸	42.01 ⁵⁵	10.09 ²⁹²	8.261 ³⁴⁶	6.47 ³⁵
Dez. 6	21.626 ²⁹¹	50.52 ⁵⁹	10.426 ²⁹⁹	35.42 ⁴¹	42.56 ⁴⁴	13.01 ³³¹	8.607 ³¹⁷	6.12 ¹⁴
16	21.917 ²⁵⁵	49.93 ⁴³	10.725 ²⁶²	35.01 ²²	43.00 ³¹	16.32 ³⁶⁰	8.924 ²⁷⁷	5.98 ⁷
26	22.172 ²¹¹	49.50 ²⁵	10.987 ²¹⁶	34.79 ³	43.31 ¹⁷	19.92 ³⁷⁷	9.201 ²³⁰	6.05 ²⁹
36	22.383	49.25	11.203	34.76	43.48	23.69	9.431	6.34
Mittl. Ort	17.114	53.76	5.818	39.57	40.63	26.49	3.726	11.69
sec δ , tg δ	1.099	+0.457	1.135	+0.536	3.315	—3.160	1.200	+0.664
a , a'	+3.6	—8.5	+3.7	—8.6	—0.7	—8.7	+3.9	—8.7
b , b'	—0.01	—0.91	—0.02	—0.90	+0.09	—0.90	—0.02	—0.90

Tag	300) Grb 1374		303) γ Argus		305) γ Geminorum		306) ζ Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	7 ^h 51 ^m	+74° 6'	7 ^h 54 ^m	−52° 47'	7 ^h 59 ^m	+27° 59'	8 ^h 1 ^m	−39° 48'
Jan. I	63.20	19.63	63.146	34.64	18.251	24.51	10.677	16.91
II	63.66	22.15	63.281	38.35	18.456	24.53	10.826	20.34
20 ^{a)}	63.96	24.85	63.341	42.03	18.607	24.75	10.916	23.72
30	64.09	27.64	63.327	45.58	18.701	25.14	10.944	26.96
Feb. 9	64.05	30.41	63.241	48.90	18.737	25.68	10.912	29.97
19	63.85	33.03	63.088	51.91	18.719	26.32	10.825	32.68
März I	63.51	35.42	62.877	54.56	18.652	27.02	10.689	35.05
II	63.04	37.47	62.618	56.79	18.543	27.71	10.511	37.03
21	62.47	39.10	62.322	58.57	18.403	28.37	10.303	38.58
31	61.84	40.25	62.001	59.85	18.243	28.96	10.074	39.68
Apr. 10	61.18	40.89	61.668	60.63	18.073	29.43	9.834	40.33
20	60.51	41.00	61.334	60.90	17.904	29.78	9.594	40.51
30	59.87	40.58	61.011	60.66	17.747	30.00	9.363	40.24
Mai 10	59.28	39.65	60.708	59.92	17.610	30.08	9.149	39.53
20	58.77	38.26	60.434	58.70	17.500	30.03	8.959	38.40
30	58.36	36.46	60.196	57.04	17.421	29.86	8.799	36.87
Juni 9	58.06	34.31	60.001	54.98	17.378	29.58	8.674	34.99
19	57.88	31.86	59.854	52.57	17.372	29.20	8.586	32.80
29	57.83	29.20	59.758	49.87	17.404	28.74	8.539	30.36
Juli 9	57.91	26.38	59.716	46.97	17.474	28.21	8.534	27.74
19	58.12	23.49	59.729	43.94	17.580	27.61	8.570	25.02
29	58.45	20.58	59.799	40.87	17.721	26.95	8.649	22.28
Aug. 8	58.89	17.71	59.924	37.87	17.894	26.23	8.770	19.61
18	59.45	14.95	60.104	35.04	18.098	25.45	8.932	17.10
28	60.11	12.35	60.337	32.47	18.330	24.60	9.133	14.84
Sept. 7	60.86	9.96	60.618	30.26	18.588	23.70	9.371	12.92
17	61.69	7.83	60.944	28.50	18.871	22.74	9.643	11.43
27	62.58	6.00	61.308	27.27	19.176	21.72	9.945	10.43
Okt. 7	63.53	4.52	61.703	26.63	19.501	20.66	10.272	9.97
17	64.52	3.42	62.120	26.62	19.842	19.58	10.619	10.10
27	65.54	2.74	62.549	27.26	20.196	18.50	10.979	10.83
Nov. 6	66.56	2.51	62.978	28.54	20.557	17.45	11.342	12.14
16	67.56	2.74	63.395	30.43	20.919	16.47	11.700	14.00
26	68.52	3.44	63.788	32.86	21.274	15.59	12.043	16.36
Dez. 6	69.42	4.60	64.144	35.76	21.612	14.86	12.361	19.13
16	70.22	6.20	64.451	39.04	21.925	14.31	12.644	22.23
26	70.91	8.19	64.699	42.59	22.204	13.96	12.882	25.55
36	71.46	10.51	64.881	46.28	22.440	13.82	13.068	28.98
Mittl. Ort	58.37	18.32	61.530	47.43	17.055	21.10	9.474	28.66
sec δ , $\lg \delta$	3.651	+3.512	1.654	−1.317	1.132	+0.531	1.302	−0.833
a, a'	+7.2	−9.4	+1.5	−9.6	+3.7	−10.0	+2.1	−10.1
b, b'	−0.11	−0.88	+0.04	−0.88	−0.02	−0.87	+0.03	−0.86

*) Bei Stern 305) und 306) lies Jan. 21

Tag	307) 27 Lynceis		308) 1 Navis		309) 7 Argus		311) 20 Navis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	8 ^h 3 ^m	+51° 42'	8 ^h 4 ^m	-24° 6'	8 ^h 7 ^m	-47° 7'	8 ^h 10 ^m	-15° 34'
Jan. 1	18.508 ²⁷²	27.43 ¹³⁵	37.287 ¹⁶⁰	6.03 ²⁸⁹	25.672 ¹⁵⁶	44.45 ³⁶²	10.628 ¹⁷¹	36.73 ²⁵²
11	18.780 ¹⁹⁸	28.81 ¹⁶¹	37.447 ¹⁰⁹	8.92 ²⁸⁰	25.828 ⁸⁹	48.07 ³⁵⁹	10.799 ¹²²	39.25 ²⁴¹
21	18.978 ¹¹⁹	30.42 ¹⁷⁷	37.556 ⁵⁶	11.72 ²⁶³	25.917 ²²	51.66 ³⁴⁷	10.921 ⁷¹	41.66 ²²³
30	19.097 ⁴⁰	32.19 ¹⁸⁵	37.612 ³	14.35 ²⁴⁰	25.939 ⁴⁴	55.13 ³²⁷	10.992 ¹⁹	43.89 ²⁰²
Feb. 9	19.137 ³⁶	34.04 ¹⁸⁵	37.615 ⁴⁷	16.75 ²¹³	25.895 ¹⁰⁶	58.40 ²⁹⁸	11.011 ²⁹	45.91 ¹⁷⁶
19	19.101 ¹⁰⁶	35.89 ¹⁷⁵	37.568 ⁹¹	18.88 ¹⁸²	25.789 ¹⁶¹	61.38 ²⁶³	10.982 ⁷²	47.67 ¹⁴⁷
März 1	18.995 ¹⁶⁵	37.64 ¹⁵⁹	37.477 ¹²⁸	20.70 ¹⁴⁸	25.628 ²⁰⁶	64.01 ²²³	10.910 ¹⁰⁸	49.14 ¹¹⁸
11	18.830 ²¹¹	39.23 ¹³⁵	37.349 ¹⁵⁶	22.18 ¹¹²	25.422 ²⁴²	66.24 ¹⁸⁰	10.802 ¹³⁷	50.32 ⁸⁷
21	18.619 ²⁴²	40.58 ¹⁰⁶	37.193 ¹⁷⁴	23.30 ⁷⁶	25.180 ²⁶⁶	68.04 ¹³³	10.665 ¹⁵⁵	51.19 ⁵⁶
31	18.377 ²⁵⁹	41.64 ⁷²	37.019 ¹⁸⁴	24.06 ³⁹	24.914 ²⁸⁰	69.37 ⁸⁴	10.510 ¹⁶⁵	51.75 ²⁶
Apr. 10	18.118 ²⁵⁹	42.36 ³⁷	36.835 ¹⁸³	24.45 ³	24.634 ²⁸²	70.21 ³⁶	10.345 ¹⁶⁵	52.01 ³
20	17.859 ²⁴⁷	42.73 ¹	36.652 ¹⁷⁵	24.48 ³³	24.352 ²⁷⁵	70.57 ¹³	10.180 ¹⁵⁷	51.98 ³³
30	17.612 ²²²	42.74 ³⁵	36.477 ¹⁵⁸	24.15 ⁶⁷	24.077 ²⁵⁸	70.44 ⁶¹	10.023 ¹⁴²	51.65 ⁶⁰
Mai 10	17.390 ¹⁸⁷	42.39 ⁶⁹	36.319 ¹³⁷	23.48 ¹⁰⁰	23.819 ²³⁴	69.83 ¹⁰⁸	9.881 ¹²¹	51.05 ⁸⁷
20	17.203 ¹⁴²	41.70 ⁹⁹	36.182 ¹¹⁰	22.48 ¹³⁰	23.585 ²²²	68.75 ¹⁵⁰	9.760 ⁹⁶	50.18 ¹¹⁰
30	17.061 ⁹⁴	40.71 ¹²⁶	36.072 ⁸⁰	21.18 ¹⁵⁶	23.383 ¹⁶⁶	67.25 ¹⁹⁰	9.664 ⁶⁷	49.08 ¹³¹
Juni 9	16.967 ⁴¹	39.45 ¹⁴⁹	35.992 ⁴⁷	19.62 ¹⁸⁰	23.217 ¹²⁵	65.35 ²²⁴	9.597 ³⁶	47.77 ¹⁵⁰
19	16.926 ¹³	37.96 ¹⁶⁸	35.945 ¹³	17.82 ¹⁹⁸	23.092 ⁸²	63.11 ²⁵³	9.561 ⁴	46.27 ¹⁶⁴
29	16.939 ⁶⁸	36.28 ¹⁸²	35.932 ²²	15.84 ²¹⁰	23.010 ³⁵	60.58 ²⁷³	9.557 ²⁹	44.63 ¹⁷³
Juli 9	17.007 ¹²²	34.46 ¹⁹³	35.954 ⁵⁷	13.74 ²¹⁶	22.975 ¹³	57.85 ²⁸⁷	9.586 ⁶¹	42.90 ¹⁷⁷
19	17.129 ¹⁷³	32.53 ¹⁹⁹	36.011 ⁹¹	11.58 ²¹⁷	22.988 ⁶²	54.98 ²⁹²	9.647 ⁹³	41.13 ¹⁷⁵
29	17.302 ²²¹	30.54 ²⁰¹	36.102 ¹²⁴	9.41 ²⁰⁸	23.050 ¹¹¹	52.06 ²⁸⁷	9.740 ¹²⁴	39.38 ¹⁶⁸
Aug. 8	17.523 ²⁶⁷	28.53 ²⁰⁰	36.226 ¹⁵⁷	7.33 ¹⁹²	23.161 ¹⁵⁸	49.19 ²⁷³	9.864 ¹⁵⁴	37.70 ¹⁵³
18	17.790 ³⁰⁹	26.53 ¹⁹⁶	36.383 ¹⁸⁸	5.41 ¹⁷⁰	23.319 ²⁰⁴	46.46 ²⁴⁸	10.018 ¹⁸³	36.17 ¹³¹
28	18.099 ³⁴⁸	24.57 ¹⁸⁸	36.571 ²¹⁷	3.71 ¹⁴⁰	23.523 ²⁴⁸	43.98 ²¹⁵	10.201 ²¹⁰	34.84 ¹⁰⁵
Sept. 7	18.447 ³⁸⁴	22.69 ¹⁷⁸	36.788 ²⁴⁴	2.31 ¹⁰²	23.771 ²⁸⁹	41.83 ¹⁷²	10.411 ²³⁶	33.79 ⁷²
17	18.831 ⁴¹⁶	20.91 ¹⁶⁴	37.032 ²⁷⁰	1.29 ⁵⁹	24.060 ³²⁵	40.11 ¹²¹	10.647 ²⁵⁹	33.07 ³⁴
27	19.247 ⁴⁴³	19.27 ¹⁴⁸	37.302 ²⁹¹	0.70 ¹³	24.385 ³⁵⁴	38.90 ⁶⁵	10.906 ²⁸¹	32.73 ⁷
Okt. 7	19.690 ⁴⁶⁶	17.79 ¹²⁷	37.593 ³⁰⁸	0.57 ³⁷	24.739 ³⁷⁸	38.25 ⁴	11.187 ²⁹⁸	32.80 ⁵⁰
17	20.156 ⁴⁸²	16.52 ¹⁰⁴	37.901 ³²¹	0.94 ⁸⁶	25.117 ³⁹²	38.21 ⁵⁸	11.485 ³¹¹	33.30 ⁹³
27	20.638 ⁴⁹¹	15.48 ⁷⁷	38.222 ³²⁷	1.80 ¹³⁵	25.509 ³⁹⁷	38.79 ¹²⁰	11.796 ³¹⁹	34.23 ¹³⁵
Nov. 6	21.129 ⁴⁹⁰	14.71 ⁴⁶	38.549 ³²⁵	3.15 ¹⁸⁰	25.906 ³⁹¹	39.99 ¹⁸⁰	12.115 ³²⁰	35.58 ¹⁷²
16	21.619 ⁴⁸⁰	14.25 ¹⁴	38.874 ³¹⁶	4.95 ²¹⁸	26.297 ³⁷⁴	41.79 ²³⁴	12.435 ³¹²	37.30 ²⁰⁴
26	22.099 ⁴⁵⁶	14.11 ²⁰	39.190 ²⁹⁸	7.13 ²⁵⁰	26.671 ³⁴⁵	44.13 ²⁸⁰	12.747 ²⁹⁷	39.34 ²³⁰
Dez. 6	22.555 ⁴¹¹	14.31 ⁵⁵	39.488 ²⁷⁰	9.63 ²⁷³	27.016 ³⁰⁶	46.93 ³¹⁷	13.044 ²⁷³	41.64 ²⁴⁷
16	22.976 ³⁷³	14.86 ⁸⁸	39.758 ²³⁵	12.36 ²⁸⁸	27.322 ²⁵⁵	50.10 ³⁴⁴	13.317 ²⁴⁰	44.11 ²⁵⁶
26	23.349 ³¹⁴	15.74 ¹¹⁹	39.993 ¹⁹¹	15.24 ²⁹²	27.577 ¹⁹⁶	53.54 ³⁵⁹	13.557 ²⁰⁰	46.67 ²⁵⁷
36	23.663	16.93	40.184	18.16	27.773	57.13	13.757	49.24
Mittl. Ort	16.594	26.25	36.299	15.94	24.329	57.32	9.703	45.55
sec δ, tg δ	1.614	+1.267	1.096	-0.447	1.470	-1.077	1.038	-0.279
a, a'	+4.5	-10.3	+2.6	-10.4	+1.9	-10.6	+2.8	-10.8
b, b'	-0.04	-0.86	+0.02	-0.86	+0.04	-0.85	+0.01	-0.84

Tag	310) Br 1147		312) β Cancri		314) 31 Lynceis		315) ε Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	8 ^h 10 ^m	+75° 57'	8 ^h 12 ^m	+9° 23'	8 ^h 18 ^m	+43° 24'	8 ^h 21 ^m	—59° 16'
Jan. 1	60.82	72.90	47.479	63.00	8.710	39.90	7.761	57.92
11	61.39	75.36	47.672	61.82	8.970	40.73	7.945	61.70
21	61.79	78.06	47.817	60.83	9.168	41.81	8.043	65.52
30	62.00	80.89	47.911	60.03	9.299	43.09	8.054	69.27
Feb. 9	62.02	83.75	47.954	59.42	9.360	44.51	7.980	72.87
19	61.85	86.51	47.947	59.01	9.355	45.99	7.827	76.21
März 1	61.51	89.06	47.895	58.77	9.288	47.45	7.603	79.24
11	61.03	91.31	47.806	58.69	9.168	48.84	7.319	81.88
21	60.43	93.16	47.687	58.73	9.006	50.07	6.986	84.09
31	59.73	94.55	47.549	58.88	8.815	51.11	6.618	85.82
Apr. 10	58.99	95.42	47.400	59.11	8.607	51.89	6.228	87.05
20	58.23	95.75	47.251	59.41	8.396	52.40	5.828	87.77
30	57.49	95.54	47.111	59.76	8.193	52.62	5.432	87.96
Mai 10	56.79	94.81	46.986	60.16	8.008	52.55	5.050	87.63
20	56.16	93.58	46.883	60.59	7.852	52.20	4.693	86.79
30	55.64	91.90	46.806	61.05	7.730	51.58	4.371	85.47
Juni 9	55.24	89.83	46.759	61.53	7.647	50.73	4.090	83.69
19	54.96	87.42	46.742	62.03	7.608	49.67	3.859	81.52
29	54.82	84.75	46.758	62.53	7.614	48.42	3.683	79.00
Juli 9	54.82	81.90	46.806	63.02	7.664	47.03	3.567	76.21
19	54.96	78.91	46.886	63.47	7.758	45.53	3.514	73.23
29	55.24	75.87	46.996	63.86	7.894	43.93	3.527	70.14
Aug. 8	55.66	72.84	47.136	64.17	8.072	42.27	3.608	67.05
18	56.21	69.88	47.303	64.37	8.289	40.57	3.756	64.07
28	56.88	67.05	47.496	64.43	8.542	38.86	3.971	61.28
Sept. 7	57.65	64.41	47.715	64.32	8.829	37.16	4.249	58.80
17	58.52	62.01	47.957	64.02	9.148	35.48	4.586	56.73
27	59.48	59.90	48.221	63.51	9.497	33.87	4.975	55.16
Okt. 7	60.51	58.13	48.506	62.78	9.872	32.35	5.409	54.15
17	61.60	56.74	48.807	61.85	10.269	30.94	5.877	53.77
27	62.72	55.77	49.123	60.72	10.685	29.68	6.366	54.04
Nov. 6	63.86	55.26	49.448	59.42	11.112	28.61	6.864	54.97
16	64.99	55.23	49.775	57.99	11.543	27.77	7.355	56.54
26	66.08	55.70	50.098	56.48	11.969	27.19	7.823	58.72
Dez. 6	67.11	56.66	50.408	54.94	12.379	26.90	8.253	61.42
16	68.05	58.09	50.697	53.43	12.763	26.91	8.630	64.56
26	68.87	59.95	50.956	52.01	13.107	27.24	8.942	68.04
36	69.54	62.19	51.177	50.71	13.403	27.87	9.178	71.76
Mittl. Ort	55.31	73.31	46.514	57.82	7.162	39.13	6.026	72.82
sec δ , tg δ	4.125	+4.002	1.014	+0.166	1.377	+0.946	1.958	—1.683
a, a'	+7.6	—10.8	+3.3	—11.0	+4.1	—11.4	+1.2	—11.6
b, b'	—0.14	—0.84	—0.01	—0.84	—0.04	—0.82	+0.06	—0.82

Tag	316) Br 1197		318) β Chamael.		317) α Ursae maj.		320) Grb 1450	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	8 ^h 22 ^m	—3° 40'	8 ^h 22 ^m	—77° 15'	8 ^h 24 ^m	+60° 56'	8 ^h 28 ^m	+38° 15'
Jan. I	13.720 ¹⁹⁰	41.69 ¹⁹⁴	48.71 ²⁵	28.72 ³⁷³	35.44 ³⁶	61.14 ¹⁷¹	27.601 ²⁵⁶	16.62 ⁴⁶
II	13.910 ¹⁴³	43.63 ¹⁸⁰	48.96 ⁶	32.45 ³⁸³	35.80 ²⁷	62.85 ¹⁹⁹	27.857 ¹⁹⁹	17.08 ⁷³
21	14.053 ⁹³	45.43 ¹⁶²	49.02 ¹³	36.28 ³⁸²	36.07 ¹⁷	64.84 ²¹⁹	28.056 ¹³⁷	17.81 ⁹⁵
30	14.146 ²⁷	47.05 ¹⁴⁰	48.89 ³¹	40.10 ³⁷⁰	36.24 ⁷	67.03 ²²⁹	28.193 ⁷³	18.76 ¹¹²
Feb. 9	14.189 ⁴³	48.45 ¹¹⁷	48.58 ⁴⁷	43.80 ³⁵⁰	36.31 ²	69.32 ²²⁹	28.266 ¹⁰	19.88 ¹²²
19	14.183 ⁵⁰	49.62 ⁹⁴	48.11 ⁶³	47.30 ³²¹	36.29 ¹¹	71.61 ²²⁰	28.276 ⁴⁸	21.10 ¹²⁶
März I	14.133 ⁸⁷	50.56 ⁷⁰	47.48 ⁷⁶	50.51 ²⁸⁷	36.18 ²⁰	73.81 ²⁰¹	28.228 ⁹⁹	22.36 ¹²²
II	14.046 ¹¹⁷	51.26 ⁴⁷	46.72 ⁸⁷	53.38 ²⁴⁵	35.98 ²⁶	75.82 ¹⁷³	28.129 ¹³⁹	23.58 ¹¹⁴
21	13.929 ¹³⁶	51.73 ²⁵	45.85 ⁹⁵	55.83 ²⁰⁰	35.72 ³⁰	77.55 ¹³⁹	27.990 ¹⁶⁸	24.72 ⁹⁹
31	13.793 ¹⁴⁸	51.98 ⁵	44.90 ¹⁰¹	57.83 ¹⁵¹	35.42 ³³	78.94 ¹⁰⁰	27.822 ¹⁸⁵	25.71 ⁷⁹
Apr. 10	13.645 ¹⁵⁰	52.03 ¹⁴	43.89 ¹⁰³	59.34 ¹⁰⁰	35.09 ³⁵	79.94 ⁵⁷	27.637 ¹⁹⁰	26.50 ⁵⁷
20	13.495 ¹⁴³	51.89 ³³	42.86 ¹⁰⁴	60.34 ⁴⁶	34.74 ³⁴	80.51 ¹³	27.447 ¹⁸⁴	27.07 ³⁴
30	13.352 ¹³⁰	51.56 ⁴⁹	41.82 ¹⁰²	60.80 ⁷	34.40 ³¹	80.64 ³¹	27.263 ¹⁶⁹	27.41 ⁹
Mai 10	13.222 ¹¹⁰	51.07 ⁶⁵	40.80 ⁹⁸	60.73 ⁶⁰	34.09 ²⁸	80.33 ⁷³	27.094 ¹⁴⁵	27.50 ¹⁶
20	13.112 ⁸⁶	50.42 ⁷⁹	39.82 ⁹¹	60.13 ¹¹²	33.81 ²³	79.60 ¹¹³	26.949 ¹¹⁴	27.34 ³⁹
30	13.026 ⁶⁰	49.63 ⁹²	38.91 ⁸²	59.01 ¹⁵⁹	33.58 ¹⁷	78.47 ¹⁴⁷	26.835 ⁷⁹	26.95 ⁶¹
Juni 9	12.966 ³⁰	48.71 ¹⁰²	38.09 ⁷²	57.42 ²⁰²	33.41 ¹¹	77.00 ¹⁷⁸	26.756 ⁴¹	26.34 ⁷⁹
19	12.936 ⁰	47.69 ¹⁰⁹	37.37 ⁵⁹	55.40 ²⁴²	33.30 ⁵	75.22 ²⁰⁴	26.715 ¹	25.55 ⁹⁷
29	12.936 ³¹	46.60 ¹¹⁴	36.78 ⁴⁵	52.98 ²⁷³	33.25 ²	73.18 ²²⁴	26.714 ³⁹	24.58 ¹¹¹
Juli 9	12.967 ⁶¹	45.46 ¹¹⁴	36.33 ³⁰	50.25 ²⁹⁶	33.27 ⁹	70.94 ²³⁹	26.753 ⁷⁹	23.47 ¹²⁴
19	13.028 ⁹¹	44.32 ¹¹¹	36.03 ¹³	47.29 ³¹¹	33.36 ¹⁶	68.55 ²⁴⁹	26.832 ¹¹⁸	22.23 ¹³³
29	13.119 ¹²⁰	43.21 ¹⁰³	35.90 ³	44.18 ³¹⁶	33.52 ²²	66.06 ²⁵³	26.950 ¹⁵⁵	20.90 ¹⁴²
Aug. 8	13.239 ¹⁴⁹	42.18 ⁹⁰	35.93 ²⁰	41.02 ³¹⁰	33.74 ²⁸	63.53 ²⁵⁴	27.105 ¹⁹⁰	19.48 ¹⁴⁹
18	13.388 ¹⁷⁶	41.28 ⁷²	36.13 ³⁷	37.92 ²⁹⁴	34.02 ³⁴	60.99 ²⁴⁹	27.295 ²²⁵	17.99 ¹⁵³
28	13.564 ²⁰²	40.56 ⁵⁰	36.50 ⁵²	34.98 ²⁶⁶	34.36 ³⁹	58.50 ²⁴⁰	27.520 ²⁵⁷	16.46 ¹⁵⁶
Sept. 7	13.766 ²²⁷	40.06 ²³	37.02 ⁶⁷	32.32 ²²⁹	34.75 ⁴⁵	56.10 ²²⁶	27.777 ²⁸⁸	14.90 ¹⁵⁸
17	13.993 ²⁵¹	39.83 ⁶	37.69 ⁸⁰	30.03 ¹⁸³	35.20 ⁴⁹	53.84 ²⁰⁹	28.065 ³¹⁷	13.32 ¹⁵⁷
27	14.244 ²⁷³	39.89 ³⁹	38.49 ⁹⁰	28.20 ¹²⁷	35.69 ⁵³	51.75 ¹⁸⁶	28.382 ³⁴²	11.75 ¹⁵³
Okt. 7	14.517 ²⁹¹	40.28 ⁷²	39.39 ⁹⁷	26.93 ⁶⁶	36.22 ⁵⁶	49.89 ¹⁶⁰	28.724 ³⁶⁶	10.22 ¹⁴⁷
17	14.808 ³⁰⁶	41.00 ¹⁰⁴	40.36 ¹⁰²	26.27 ¹	36.78 ⁵⁹	48.29 ¹²⁹	29.090 ³⁸⁵	8.75 ¹³⁷
27	15.114 ³¹⁷	42.04 ¹³⁵	41.38 ¹⁰³	26.26 ⁶⁶	37.37 ⁶⁰	47.00 ⁹⁴	29.475 ³⁹⁸	7.38 ¹²⁴
Nov. 6	15.431 ³²⁰	43.39 ¹⁶¹	42.41 ⁹⁹	26.92 ¹³²	37.97 ⁶⁰	46.06 ⁵⁶	29.873 ⁴⁰⁵	6.14 ¹⁰⁶
16	15.751 ³¹⁶	45.00 ¹⁸³	43.40 ⁹³	28.24 ¹⁹³	38.57 ⁶⁰	45.50 ¹⁵	30.278 ⁴⁰²	5.08 ⁸⁵
26	16.067 ³⁰⁵	46.83 ¹⁹⁸	44.33 ⁸³	30.17 ²⁵⁰	39.17 ⁵⁸	45.35 ²⁷	30.680 ³⁹⁰	4.23 ⁵⁹
Dez. 6	16.372 ²⁸⁴	48.81 ²⁰⁶	45.16 ⁷⁰	32.67 ²⁹⁸	39.75 ⁵⁴	45.62 ⁷⁰	31.070 ³⁶⁷	3.64 ³²
16	16.656 ²⁵⁴	50.87 ²⁰⁹	45.86 ⁵⁵	35.65 ³³⁶	40.29 ⁴⁸	46.32 ¹¹¹	31.437 ³³³	3.32 ³
26	16.910 ²¹⁸	52.96 ²⁰³	46.41 ³⁷	39.01 ³⁶⁴	40.77 ⁴⁰	47.43 ¹⁴⁸	31.770 ²⁸⁸	3.29 ²⁷
36	17.128	54.99	46.78	42.65	41.17	48.91	32.058	3.56
Mittl. Ort	12.835	48.69	44.41	45.17	32.90	62.22	26.226	15.97
sec δ , tg δ	1.002	—0.064	4.535	—4.424	2.059	+1.800	1.273	+0.788
α , α'	+3.0	—11.7	—1.7	—11.7	+5.0	—11.8	+3.9	—12.1
b , b'	0.00	—0.81	+0.17	—0.81	—0.07	—0.81	—0.03	—0.80

Obere Kulmination Greenwich

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Tag	321) η Cancri		326) δ Cancri		327) α Pyxidis		328) ϵ Cancri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	8 ^h 28 ^m	+20° 40'	8 ^h 40 ^m	+18° 24'	8 ^h 40 ^m	—32° 55'	8 ^h 42 ^m	+29° 0'
Jan. I	44.370 ²²²	39.35 ⁵⁷	47.012 ²²⁹	35.32 ⁷⁷	50.036 ¹⁹⁸	60.24 ³²⁴	32.738 ²⁵⁰	49.69 ¹⁶
II	44.592 ¹⁷³	38.78 ³⁵	47.241 ¹⁸²	34.55 ⁵⁵	50.234 ¹⁴⁵	63.48 ³²²	32.988 ¹⁹⁸	49.53 ¹¹
III	44.765 ¹¹⁹	38.43 ¹⁴	47.423 ¹³⁰	34.00 ³²	50.379 ⁸⁸	66.70 ³¹²	33.186 ¹⁴²	49.64 ³⁴
30*)	44.884 ⁶⁴	38.29 ⁶	47.553 ⁷⁶	33.68 ¹¹	50.467 ³²	69.82 ²⁹⁴	33.328 ⁸³	49.98 ⁵⁵
Feb. 9	44.948 ¹²	38.35 ²³	47.629 ²³	33.57 ⁸	50.499 ²²	72.76 ²⁷⁰	33.411 ²⁷	50.53 ⁷¹
19	44.960 ³⁷	38.58 ³⁶	47.652 ²⁶	33.65 ²⁴	50.477 ⁷³	75.46 ²⁴⁰	33.438 ²⁶	51.24 ⁸²
März I	44.923 ⁸⁰	38.94 ⁴⁵	47.626 ⁶⁸	33.89 ³⁵	50.404 ¹¹⁵	77.86 ²⁰⁶	33.412 ⁷³	52.06 ⁸⁷
II	44.843 ¹¹²	39.39 ⁵⁰	47.558 ¹⁰³	34.24 ⁴²	50.289 ¹⁴⁹	79.92 ¹⁶⁸	33.339 ¹¹⁰	52.93 ⁸⁷
21	44.731 ¹³⁶	39.89 ⁵¹	47.455 ¹²⁷	34.66 ⁴⁷	50.140 ¹⁷⁵	81.60 ¹²⁹	33.229 ¹³⁹	53.80 ⁸²
31	44.595 ¹⁵⁰	40.40 ⁴⁹	47.328 ¹⁴³	35.13 ⁴⁸	49.965 ¹⁹¹	82.89 ⁸⁹	33.090 ¹⁵⁶	54.62 ⁷²
Apr. 10	44.445 ¹⁵⁴	40.89 ⁴⁴	47.185 ¹⁴⁸	35.61 ⁴⁵	49.774 ¹⁹⁸	83.78 ⁴⁸	32.934 ¹⁶²	55.34 ⁵⁹
20	44.291 ¹⁴⁷	41.33 ³⁸	47.037 ¹⁴⁴	36.06 ⁴¹	49.576 ¹⁹⁶	84.26 ⁶	32.772 ¹⁶⁰	55.93 ⁴⁵
30	44.144 ¹³⁴	41.71 ³⁰	46.893 ¹³³	36.47 ³⁶	49.380 ¹⁸⁶	84.32 ³⁴	32.612 ¹⁴⁸	56.38 ²⁹
Mai 10	44.010 ¹¹³	42.01 ²³	46.760 ¹¹⁵	36.83 ³⁰	49.194 ¹⁷⁰	83.98 ⁷³	32.464 ¹²⁸	56.67 ¹²
20	43.897 ⁸⁸	42.24 ¹⁵	46.645 ⁹¹	37.13 ²³	49.024 ¹⁴⁸	83.25 ¹¹⁰	32.336 ¹⁰⁴	56.79 ⁴
30	43.809 ⁵⁹	42.39 ⁷	46.554 ⁶⁴	37.36 ¹⁷	48.876 ¹²³	82.15 ¹⁴⁵	32.232 ⁷⁴	56.75 ²⁰
Juni 9	43.750 ²⁷	42.46 ¹	46.490 ³⁶	37.53 ⁹	48.753 ⁹³	80.70 ¹⁷⁴	32.158 ⁴²	56.55 ³⁵
19	43.723 ⁶	42.45 ⁸	46.454 ⁴	37.62 ³	48.660 ⁶¹	78.96 ²⁰⁰	32.116 ⁸	56.20 ⁴⁸
29	43.729 ³⁹	42.37 ¹⁵	46.450 ²⁷	37.65 ⁴	48.599 ²⁷	76.96 ²¹⁹	32.108 ²⁶	55.72 ⁶¹
Juli 9	43.768 ⁷¹	42.22 ²³	46.477 ⁵⁹	37.61 ¹³	48.572 ⁸	74.77 ²³³	32.134 ⁶¹	55.11 ⁷²
19	43.839 ¹⁰³	41.99 ³¹	46.536 ⁹⁰	37.48 ²¹	48.580 ⁴⁵	72.44 ²³⁹	32.195 ⁹⁵	54.39 ⁸³
29	43.942 ¹³⁴	41.68 ⁴⁰	46.626 ¹¹⁹	37.27 ³¹	48.625 ⁸²	70.05 ²³⁷	32.290 ¹²⁷	53.56 ⁹⁴
Aug. 8	44.076 ¹⁶³	41.28 ⁵¹	46.745 ¹⁴⁹	36.96 ⁴²	48.707 ¹¹⁸	67.68 ²²⁷	32.417 ¹⁵⁹	52.62 ¹⁰³
18	44.239 ¹⁹²	40.77 ⁶¹	46.894 ¹⁷⁷	36.54 ⁵⁴	48.825 ¹⁵⁴	65.41 ²⁰⁸	32.576 ¹⁹⁰	51.59 ¹¹²
28	44.431 ²¹⁹	40.16 ⁷³	47.071 ²⁰⁵	36.00 ⁶⁸	48.979 ¹⁹¹	63.33 ¹⁸⁰	32.766 ²²⁰	50.47 ¹²²
Sept. 7	44.650 ²⁴⁵	39.43 ⁸⁵	47.276 ²³¹	35.32 ⁸²	49.170 ²²⁶	61.53 ¹⁴⁶	32.986 ²⁴⁹	49.25 ¹³⁰
17	44.895 ²⁶⁹	38.58 ⁹⁸	47.507 ²⁵⁷	34.50 ⁹⁷	49.396 ²⁵⁹	60.07 ¹⁰²	33.235 ²⁷⁶	47.95 ¹³⁷
27	45.164 ²⁹²	37.60 ¹¹⁰	47.764 ²⁸²	33.53 ¹¹¹	49.655 ²⁸⁸	59.05 ⁵⁴	33.511 ³⁰²	46.58 ¹⁴²
Okt. 7	45.456 ³¹³	36.50 ¹²¹	48.046 ³⁰³	32.42 ¹²⁴	49.943 ³¹⁴	58.51 ²	33.813 ³²⁶	45.16 ¹⁴⁶
17	45.769 ³³⁰	35.29 ¹²⁹	48.349 ³²²	31.18 ¹³⁵	50.257 ³³⁴	58.49 ⁵⁴	34.139 ³⁴⁶	43.70 ¹⁴⁵
27	46.099 ³⁴²	34.00 ¹³⁴	48.671 ³³⁷	29.83 ¹⁴³	50.591 ³⁴⁷	59.03 ¹⁰⁸	34.485 ³⁶¹	42.25 ¹⁴²
Nov. 6	46.441 ³⁴⁸	32.66 ¹³⁵	49.008 ³⁴⁴	28.40 ¹⁴⁶	50.938 ³⁵¹	60.11 ¹⁶¹	34.846 ³⁷⁰	40.83 ¹³⁵
16	46.789 ³⁴⁶	31.31 ¹³²	49.352 ³⁴⁵	26.94 ¹⁴⁵	51.289 ³⁴⁷	61.72 ²⁰⁸	35.216 ³⁷¹	39.48 ¹²²
26	47.135 ³³⁶	29.99 ¹²³	49.697 ³³⁶	25.49 ¹³⁹	51.636 ³³³	63.80 ²⁵⁰	35.587 ³⁶³	38.26 ¹⁰⁵
Dez. 6	47.471 ³¹⁷	28.76 ¹¹⁰	50.033 ³²⁰	24.10 ¹²⁷	51.969 ³⁰⁸	66.30 ²⁸⁴	35.950 ³⁴⁴	37.21 ⁸⁴
16	47.788 ²⁸⁷	27.66 ⁹³	50.353 ²⁹²	22.83 ¹¹²	52.277 ²⁷⁴	69.14 ³⁰⁷	36.294 ³¹⁵	36.37 ⁶⁰
26	48.075 ²⁴⁹	26.73 ⁷³	50.645 ²⁵⁶	21.71 ⁹⁵	52.551 ²³⁰	72.21 ³²²	36.609 ²⁷⁸	35.77 ³⁴
36	48.324	26.00	50.901	20.76	52.781	75.43	36.887	35.43
Mittl. Ort	43.329	36.35	46.027	32.45	49.127	72.38	31.600	48.60
sec δ , tg δ	1.069	+0.377	1.054	+0.333	1.191	—0.648	1.144	+0.555
a , a'	+3.5	—12.1	+3.4	—12.9	+2.4	—12.9	+3.6	—13.1
b , b'	—0.02	—0.80	—0.01	—0.76	+0.03	—0.76	—0.02	—0.76

*) Bei Stern 326), 327) und 328) lies Jan. 31

Scheinbare Sternörter 1931

Tag	330) δ Argus		334) ζ Hydrae		336) ϵ Carinae		335) ϵ Ursae maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	8 ^h 42 ^m	—54° 27'	8 ^h 51 ^m	+6° 12'	8 ^h 53 ^m	—60° 22'	8 ^h 54 ^m	+48° 18'
Jan. I	49.243 ²¹⁷	3.41 ³⁷⁰	45.741 ²²⁵	37.82 ¹⁵⁰	30.62 ²⁵	32.37 ³⁷²	31.275 ³²¹	47.19 ⁸³
II	49.460 ¹⁴²	7.11 ³⁷⁷	45.966 ¹⁷⁹	36.32 ¹³¹	30.87 ¹⁷	36.09 ³⁸³	31.596 ²⁵⁷	48.02 ¹¹⁷
21	49.602 ⁶⁵	10.88 ³⁷⁵	46.145 ¹³⁰	35.01 ¹¹¹	31.04 ⁸	39.92 ³⁸⁵	31.853 ¹⁸⁷	49.19 ¹⁴⁴
31	49.667 ¹¹	14.63 ³⁶²	46.275 ⁷⁹	33.90 ⁸⁹	31.12 ¹	43.77 ³⁷⁶	32.040 ¹¹³	50.63 ¹⁶³
Feb. 9	49.656 ⁸⁴	18.25 ³⁴⁰	46.354 ²⁹	33.01 ⁶⁶	31.11 ¹⁰	47.53 ³⁵⁸	32.153 ³⁹	52.26 ¹⁷⁶
19	49.572 ¹⁵⁰	21.65 ³¹¹	46.383 ¹⁸	32.35 ⁴⁶	31.01 ¹⁷	51.11 ³³²	32.192 ³¹	54.02 ¹⁸⁰
März I	49.422 ²⁰⁷	24.76 ²⁷⁶	46.365 ⁵⁹	31.89 ²⁶	30.84 ¹⁴	54.43 ²⁹⁸	32.161 ⁹⁴	55.82 ¹⁷⁵
II	49.215 ²⁵⁴	27.52 ²³⁵	46.306 ⁹²	31.63 ⁹	30.60 ³⁰	57.41 ²⁵⁹	32.067 ¹⁴⁶	57.57 ¹⁶²
21	48.961 ²⁹⁰	29.87 ¹⁹⁰	46.214 ¹¹⁶	31.54 ⁵	30.30 ³⁴	60.00 ²¹⁵	31.921 ¹⁸⁶	59.19 ¹⁴¹
31	48.671 ³¹⁴	31.77 ¹⁴³	46.098 ¹³²	31.59 ¹⁸	29.96 ³⁷	62.15 ¹⁶⁸	31.735 ²¹³	60.60 ¹¹⁶
Apr. 10	48.357 ³²⁷	33.20 ⁹³	45.966 ¹³⁹	31.77 ²⁸	29.59 ³⁹	63.83 ¹¹⁷	31.522 ²²⁷	61.76 ⁸⁵
20	48.030 ³²⁸	34.13 ⁴²	45.827 ¹³⁷	32.05 ³⁶	29.20 ⁴⁰	65.00 ⁶⁶	31.295 ²²⁸	62.61 ⁵²
30	47.702 ³²⁰	34.55 ⁹	45.690 ¹²⁸	32.41 ⁴³	28.80 ³⁹	65.66 ¹⁴	31.067 ²¹⁷	63.13 ¹⁷
Mai 10	47.382 ³⁰³	34.46 ⁵⁹	45.562 ¹¹³	32.84 ⁴⁹	28.41 ³⁸	65.80 ³⁸	30.850 ¹⁹⁶	63.30 ¹⁷
20	47.079 ²⁷⁶	33.87 ¹⁰⁸	45.449 ⁹²	33.33 ⁵³	28.03 ³⁵	65.42 ⁹⁰	30.654 ¹⁶⁷	63.13 ⁵⁰
30	46.803 ²⁴⁴	32.79 ¹⁵³	45.357 ⁶⁹	33.86 ⁵⁶	27.68 ³²	64.52 ¹³⁷	30.487 ¹³¹	62.63 ⁸²
Juni 9	46.559 ²⁰⁵	31.26 ¹⁹³	45.288 ⁴³	34.42 ⁵⁸	27.36 ²⁷	63.15 ¹⁸¹	30.356 ⁹⁷	61.81 ¹¹¹
19	46.354 ¹⁶¹	29.33 ²²⁹	45.245 ¹⁵	35.00 ⁵⁹	27.09 ²³	61.34 ²²¹	30.265 ⁴¹	60.70 ¹³⁶
29	46.193 ¹¹²	27.04 ²⁵⁸	45.230 ¹⁴	35.59 ⁵⁷	26.86 ¹⁷	59.13 ²⁵⁴	30.218 ³	59.34 ¹⁵⁸
Juli 9	46.081 ⁵⁹	24.46 ²⁸⁰	45.244 ⁴²	36.16 ⁵⁴	26.69 ¹¹	56.59 ²⁷⁹	30.215 ⁴⁴	57.76 ¹⁷⁷
19	46.022 ⁴	21.66 ²⁹⁴	45.286 ⁷¹	36.70 ⁴⁸	26.58 ⁵	53.80 ²⁹⁶	30.259 ⁸⁹	55.99 ¹⁹³
29	46.018 ⁵³	18.72 ²⁹⁷	45.357 ⁹⁹	37.18 ³⁹	26.53 ²	50.84 ³⁰⁴	30.348 ¹³³	54.06 ²⁰⁴
Aug. 8	46.071 ¹¹²	15.75 ²⁹¹	45.456 ¹²⁸	37.57 ²⁷	26.55 ¹⁰	47.80 ³⁰²	30.481 ¹⁷⁷	52.02 ²¹²
18	46.183 ¹⁶⁹	12.84 ²⁷⁵	45.584 ¹⁵⁵	37.84 ¹¹	26.65 ¹⁶	44.78 ²⁸⁸	30.658 ²¹⁹	49.90 ²¹⁷
28	46.352 ²²⁶	10.09 ²⁴⁷	45.739 ¹⁸³	37.95 ⁶	26.81 ²³	41.90 ²⁶⁵	30.877 ²⁶⁰	47.73 ²¹⁸
Sept. 7	46.578 ²⁸¹	7.62 ²¹¹	45.922 ²⁰⁹	37.89 ²⁸	27.04 ³⁰	39.25 ²³¹	31.137 ³⁰⁰	45.55 ²¹⁷
17	46.859 ³³¹	5.51 ¹⁶⁵	46.131 ²³⁶	37.61 ⁵¹	27.34 ³⁶	36.94 ¹⁸⁷	31.437 ³³⁷	43.38 ²¹¹
27	47.190 ³⁷⁵	3.86 ¹¹²	46.367 ²⁶¹	37.10 ⁷⁵	27.70 ⁴²	35.07 ¹³⁴	31.774 ³⁷¹	41.27 ²⁰¹
Okt. 7	47.565 ⁴¹¹	2.74 ⁵²	46.628 ²⁸⁴	36.35 ⁹⁹	28.12 ⁴⁶	33.73 ⁷⁶	32.145 ⁴⁰³	39.26 ¹⁸⁸
17	47.976 ⁴³⁸	2.22 ¹¹	46.912 ³⁰³	35.36 ¹²³	28.58 ⁴⁹	32.97 ¹²	32.548 ⁴²⁹	37.38 ¹⁷⁰
27	48.414 ⁴⁵²	2.33 ⁷⁷	47.215 ³¹⁹	34.13 ¹⁴³	29.07 ⁵²	32.85 ⁵⁴	32.977 ⁴⁵¹	35.68 ¹⁴⁸
Nov. 6	48.866 ⁴⁵⁵	3.10 ¹⁴⁰	47.534 ³²⁹	32.70 ¹⁶¹	29.59 ⁵²	33.39 ¹²⁰	33.428 ⁴⁵¹	34.20 ¹²⁰
16	49.321 ⁴⁴²	4.50 ²⁰⁰	47.863 ³³⁰	31.09 ¹⁷²	30.11 ⁵¹	34.59 ¹⁸³	33.891 ⁴⁶⁵	33.00 ⁸⁹
26	49.763 ⁴¹⁷	6.50 ²⁵⁴	48.193 ³²⁴	29.37 ¹⁷⁸	30.62 ⁴⁸	36.42 ²⁴⁰	34.356 ⁴⁵⁷	32.11 ⁵⁴
Dez. 6	50.180 ³⁷⁷	9.04 ³⁰⁰	48.517 ³⁰⁸	27.59 ¹⁷⁹	31.10 ⁴³	38.82 ²⁸⁹	34.813 ⁴³⁶	31.57 ¹⁶
16	50.557 ³²⁵	12.04 ³³⁶	48.825 ²⁸⁴	25.80 ¹⁷³	31.53 ³⁷	41.71 ³³¹	35.249 ⁴⁰¹	31.41 ²¹
26	50.882 ²⁶¹	15.40 ³⁶²	49.109 ²⁵⁰	24.07 ¹⁶²	31.90 ³⁰	45.02 ³⁶⁰	35.650 ³⁵⁵	31.62 ⁵⁹
36	51.143	19.02	49.359	22.45	32.20	48.62	36.005	32.21
Mittl. Ort	47.917	18.85	44.899	33.09	29.15	49.04	29.610	49.49
sec δ , tg δ	1.720	—1.399	1.006	+0.109	2.023	—1.759	1.504	+1.123
a, a'	+1.7	—13.1	+3.2	—13.7	+1.4	—13.8	+4.2	—13.8
b, b'	+0.06	—0.76	0.00	—0.73	+0.08	—0.73	—0.05	—0.72

Obere Kulmination Greenwich

79^{*}

Tag	337) α Cancri		339) ι Ursae maj.		341) \times Ursae maj.		343) α Volantis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	8 ^h 54 ^m	+12° 7'	8 ^h 56 ^m	+42° 3'	8 ^h 58 ^m	+47° 25'	9 ^h 1 ^m	—66° 6'
Jan. 1	43.848 ²³³	36.64 ¹¹⁹	11.582 ²⁹⁷	23.83 ⁴⁹	57.084 ³²³	47.74 ⁷⁶	23.45 ²⁹	56.09 ³⁷⁰
11	44.081 ¹⁸⁸	35.45 ⁹⁸	11.879 ²³⁹	24.32 ⁸¹	57.407 ²⁶¹	48.50 ¹⁰⁹	23.74 ¹⁹	59.79 ³⁸⁷
21	44.269 ¹³⁸	34.47 ⁷⁵	12.118 ¹⁷⁶	25.13 ¹⁰⁷	57.668 ¹⁹²	49.59 ¹³⁸	23.93 ⁹	63.66 ³⁹¹
31	44.407 ⁸⁶	33.72 ⁵³	12.294 ¹⁰⁹	26.20 ¹²⁹	57.860 ¹¹⁹	50.97 ¹⁵⁸	24.02 ¹	67.57 ³⁸⁶
Feb. 9	44.493 ³⁵	33.19 ³¹	12.403 ⁴²	27.49 ¹⁴³	57.979 ⁴⁶	52.55 ¹⁷³	24.01 ¹²	71.43 ³⁷⁰
19	44.528 ¹³	32.88 ¹²	12.445 ²¹	28.92 ¹⁵¹	58.025 ²³	54.28 ¹⁷⁷	23.89 ²¹	75.13 ³⁴⁷
März 1	44.515 ⁵⁵	32.76 ⁵	12.424 ⁷⁸	30.43 ¹⁵⁰	58.002 ⁸⁴	56.05 ¹⁷⁴	23.68 ³⁰	78.60 ³¹⁶
11	44.460 ⁹⁰	32.81 ¹⁷	12.346 ¹²⁴	31.93 ¹⁴¹	57.918 ¹³⁷	57.79 ¹⁶²	23.38 ³⁶	81.76 ²⁷⁹
21	44.370 ¹¹⁵	32.98 ²⁸	12.222 ¹⁶⁰	33.34 ¹²⁷	57.781 ¹⁷⁷	59.41 ¹⁴³	23.02 ⁴²	84.55 ²³⁶
31	44.255 ¹³²	33.26 ³⁵	12.062 ¹⁸⁵	34.61 ¹⁰⁶	57.604 ²⁰⁵	60.84 ¹¹⁸	22.60 ⁴⁶	86.91 ¹⁹⁰
Apr. 10	44.123 ¹³⁹	33.61 ³⁹	11.877 ¹⁹⁷	35.67 ⁸²	57.399 ²¹⁹	62.02 ⁸⁹	22.14 ⁴⁸	88.81 ¹⁴⁰
20	43.984 ¹³⁸	34.00 ⁴²	11.680 ¹⁹⁷	36.49 ⁵⁴	57.180 ²²¹	62.91 ⁵⁷	21.66 ⁵⁰	90.21 ⁸⁷
30	43.846 ¹²⁹	34.42 ⁴²	11.483 ¹⁸⁷	37.03 ²⁶	56.959 ²¹²	63.48 ²³	21.16 ⁵⁰	91.08 ³⁵
Mai 10	43.717 ¹¹⁴	34.84 ⁴²	11.296 ¹⁶⁸	37.29 ⁴	56.747 ¹⁹²	63.71 ¹¹	20.66 ⁴⁹	91.43 ¹⁹
20	43.603 ⁹⁴	35.26 ⁴¹	11.128 ¹⁴²	37.25 ³³	56.555 ¹⁶⁴	63.60 ⁴⁴	20.17 ⁴⁶	91.24 ⁷²
30	43.509 ⁷⁰	35.67 ³⁹	10.986 ¹¹¹	36.92 ⁵⁹	56.391 ¹³⁰	63.16 ⁷⁵	19.71 ⁴²	90.52 ¹²¹
Juni 9	43.439 ⁴³	36.06 ³⁶	10.875 ⁷⁴	36.33 ⁸⁵	56.261 ⁹²	62.41 ¹⁰⁴	19.29 ³⁷	89.31 ¹⁶⁸
19	43.396 ¹⁵	36.42 ³²	10.801 ³⁶	35.48 ¹⁰⁷	56.169 ⁴⁹	61.37 ¹³⁰	18.92 ³²	87.63 ²¹¹
29	43.381 ¹⁴	36.74 ²⁷	10.765 ⁴	34.41 ¹²⁷	56.120 ⁵	60.07 ¹⁵³	18.60 ²⁵	85.52 ²⁴⁶
Juli 9	43.395 ⁴³	37.01 ²¹	10.769 ⁴⁴	33.14 ¹⁴⁵	56.115 ³⁹	58.54 ¹⁷²	18.35 ¹⁸	83.06 ²⁷⁵
19	43.438 ⁷²	37.22 ¹³	10.813 ⁸⁴	31.69 ¹⁵⁹	56.154 ⁸³	56.82 ¹⁸⁷	18.17 ¹⁰	80.31 ²⁹⁶
29	43.510 ¹⁰¹	37.35 ³	10.897 ¹²³	30.10 ¹⁷¹	56.237 ¹²⁷	54.95 ²⁰⁰	18.07 ¹	77.35 ³⁰⁶
Aug. 8	43.611 ¹²⁹	37.38 ⁹	11.020 ¹⁶²	28.39 ¹⁸¹	56.364 ¹⁶⁹	52.95 ²⁰⁹	18.06 ⁷	74.29 ³⁰⁷
18	43.740 ¹⁵⁸	37.29 ²³	11.182 ¹⁹⁹	26.58 ¹⁸⁸	56.533 ²¹¹	50.86 ²¹⁴	18.13 ¹⁶	71.22 ²⁹⁸
28	43.898 ¹⁸⁵	37.06 ³⁹	11.381 ²³⁶	24.70 ¹⁹³	56.744 ²⁵²	48.72 ²¹⁷	18.29 ²⁵	68.24 ²⁷⁷
Sept. 7	44.083 ²¹²	36.67 ⁵⁷	11.617 ²⁷¹	22.77 ¹⁹⁴	56.996 ²⁹⁰	46.55 ²¹⁷	18.54 ³³	65.47 ²⁴⁶
17	44.295 ²³⁹	36.10 ⁷⁷	11.888 ³⁰⁴	20.83 ¹⁹³	57.286 ³²⁸	44.38 ²¹²	18.87 ⁴¹	63.01 ²⁰³
27	44.534 ²⁶⁵	35.33 ⁹⁷	12.192 ³³⁶	18.90 ¹⁸⁹	57.614 ³⁶³	42.26 ²⁰⁴	19.28 ⁴⁸	60.98 ¹⁵³
Okt. 7	44.799 ²⁸⁸	34.36 ¹¹⁶	12.528 ³⁶⁶	17.01 ¹⁸¹	57.977 ³⁹⁴	40.22 ¹⁹¹	19.76 ⁵⁴	59.45 ⁹⁵
17	45.087 ³⁰⁸	33.20 ¹³⁴	12.894 ³⁹⁰	15.20 ¹⁶⁹	58.371 ⁴²²	38.31 ¹⁷⁴	20.30 ⁵⁸	58.50 ³¹
27	45.395 ³²⁵	31.86 ¹⁴⁸	13.284 ⁴¹⁰	13.51 ¹⁵²	58.793 ⁴⁴³	36.57 ¹⁵³	20.88 ⁶¹	58.19 ³⁴
Nov. 6	45.720 ³³⁵	30.38 ¹⁵⁸	13.694 ⁴²²	11.99 ¹³¹	59.236 ⁴⁵⁷	35.04 ¹²⁷	21.49 ⁶¹	58.53 ¹⁰²
16	46.055 ³³⁷	28.80 ¹⁶⁴	14.116 ⁴²⁶	10.68 ¹⁰⁶	59.693 ⁴⁶¹	33.77 ⁹⁶	22.10 ⁶⁰	59.55 ¹⁶⁷
26	46.392 ³³²	27.16 ¹⁶⁵	14.542 ⁴¹⁹	9.62 ⁷⁶	60.154 ⁴⁵³	32.81 ⁶¹	22.70 ⁵⁷	61.22 ²²⁶
Dez. 6	46.724 ³¹⁷	25.51 ¹⁵⁹	14.961 ⁴⁰⁰	8.86 ⁴³	60.607 ⁴³⁴	32.20 ²⁵	23.27 ⁵¹	63.48 ²⁷⁸
16	47.041 ²⁹³	23.92 ¹⁴⁸	15.361 ³⁷⁰	8.43 ⁹	61.041 ⁴⁰¹	31.95 ¹⁴	23.78 ⁴⁴	66.26 ³²³
26	47.334 ²⁵⁹	22.44 ¹³²	15.731 ³²⁸	8.34 ²⁵	61.442 ³⁵⁶	32.09 ⁵²	24.22 ³⁵	69.49 ³⁵⁷
36	47.593	21.12	16.059	8.59	61.798	32.61	24.57	73.06
Mittl. Ort sec δ , tg δ	42.967 1.023	33.14 +0.215	10.156 1.347	25.46 +0.902	55.469 1.478	50.26 +1.089	21.71 2.470	73.79 —2.259
a, a'	+3.3	—13.8	+3.9	—13.9	+4.1	—14.1	+1.0	—14.3
b, b'	—0.01	—0.72	—0.04	—0.72	—0.05	—0.71	+0.11	—0.70

Tag	344) σ^2 Ursae maj.		345) λ Argus		347) ϑ Hydrae		348) β Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	9 ^h 4 ^m	+67° 24'	9 ^h 5 ^m	—43° 8'	9 ^h 10 ^m	+2° 36'	9 ^h 12 ^m	—69° 25'
Jan. I	24.09 ⁵¹	54.19 ¹⁶⁷	28.231 ²³⁴	57.26 ³⁴⁶	47.323 ²³⁸	27.69 ¹⁷⁶	28.89 ³⁵	39.56 ³⁶³
II	24.60 ⁴¹	55.86 ²⁰⁴	28.465 ¹⁷⁵	60.72 ³⁵⁴	47.561 ¹⁹⁴	25.93 ¹⁶⁰	29.24 ²³	43.19 ³⁸³
21	25.01 ²⁹	57.90 ²³³	28.640 ¹¹³	64.26 ³⁵¹	47.755 ¹⁴⁶	24.33 ¹³⁹	29.47 ¹¹	47.02 ³⁹³
31	25.30 ¹⁷	60.23 ²⁵²	28.753 ⁵⁰	67.77 ³⁴⁰	47.901 ⁹⁶	22.94 ¹¹⁶	29.58 ⁰	50.95 ³⁹⁰
Feb. 9	25.47 ⁵	62.75 ²⁶⁰	28.803 ¹¹	71.17 ³²⁰	47.997 ⁴⁶	21.78 ⁹³	29.58 ¹²	54.85 ³⁷⁹
19	25.52 ⁷	65.35 ²⁵⁷	28.792 ⁶⁸	74.37 ²⁹³	48.043 ¹	20.85 ⁷⁰	29.46 ²³	58.64 ³⁵⁸
März I	25.45 ¹⁸	67.92 ²⁴³	28.724 ¹¹⁸	77.30 ²⁶⁰	48.042 ⁴³	20.15 ⁴⁹	29.23 ³²	62.22 ³³⁰
II	25.27 ²⁷	70.35 ²¹⁹	28.606 ¹⁵⁹	79.90 ²²⁴	47.999 ⁷⁷	19.66 ²⁸	28.91 ⁴⁰	65.52 ²⁹⁵
21	25.00 ³⁵	72.54 ¹⁸⁷	28.447 ¹⁹²	82.14 ¹⁸³	47.922 ¹⁰⁴	19.38 ¹⁰	28.51 ⁴⁷	68.47 ²⁵⁵
31	24.65 ⁴⁰	74.41 ¹⁴⁸	28.255 ²¹⁵	83.97 ¹³⁹	47.818 ¹²²	19.28 ⁵	28.04 ⁵²	71.02 ²⁰⁹
Apr. 10	24.25 ⁴³	75.89 ¹⁰²	28.040 ²²⁸	85.36 ⁹⁵	47.696 ¹³²	19.33 ¹⁹	27.52 ⁵⁶	73.11 ¹⁶¹
20	23.82 ⁴⁴	76.91 ⁵⁴	27.812 ²³³	86.31 ⁴⁹	47.564 ¹³³	19.52 ³¹	26.96 ⁵⁸	74.72 ¹⁰⁸
30	23.38 ⁴³	77.45 ⁴	27.579 ²²⁸	86.80 ³	47.431 ¹²⁶	19.83 ⁴¹	26.38 ⁵⁸	75.80 ⁵⁶
Mai 10	22.95 ⁴¹	77.49 ⁴⁴	27.351 ²¹⁶	86.83 ⁴³	47.305 ¹¹⁵	20.24 ⁴⁹	25.80 ⁵⁷	76.36 ²
20	22.54 ³⁶	77.05 ⁹¹	27.135 ¹⁹⁹	86.40 ⁸⁶	47.190 ⁹⁸	20.73 ⁵⁷	25.23 ⁵⁵	76.38 ⁵¹
30	22.18 ³¹	76.14 ¹³⁵	26.936 ¹⁷⁵	85.54 ¹²⁸	47.092 ⁷⁷	21.30 ⁶³	24.68 ⁵¹	75.87 ¹⁰³
Juni 9	21.87 ²⁵	74.79 ¹⁷⁴	26.761 ¹⁴⁷	84.26 ¹⁶⁵	47.015 ⁵⁵	21.93 ⁶⁷	24.17 ⁴⁶	74.84 ¹⁵²
19	21.62 ¹⁷	73.05 ²⁰⁹	26.614 ¹¹⁵	82.61 ¹⁹⁸	46.960 ²⁹	22.60 ⁶⁹	23.71 ⁴¹	73.32 ¹⁹⁶
29	21.45 ⁹	70.96 ²³⁹	26.499 ⁸⁰	80.63 ²²⁶	46.931 ²	23.29 ⁷⁰	23.30 ³³	71.36 ²³⁵
Juli 9	21.36 ¹	68.57 ²⁶²	26.419 ⁴²	78.37 ²⁴⁶	46.929 ²⁴	23.99 ⁶⁸	22.97 ²⁵	69.01 ²⁶⁷
19	21.35 ⁸	65.95 ²⁷⁹	26.377 ¹	75.91 ²⁶⁰	46.953 ⁵²	24.67 ⁶²	22.72 ¹⁶	66.34 ²⁹⁰
29	21.43 ¹⁵	63.16 ²⁹²	26.376 ⁴²	73.31 ²⁶⁵	47.005 ⁷⁹	25.29 ⁵⁴	22.56 ⁶	63.44 ³⁰⁵
Aug. 8	21.58 ²³	60.24 ²⁹⁸	26.418 ⁸⁵	70.66 ²⁶⁰	47.084 ¹⁰⁷	25.83 ⁴²	22.50 ⁴	60.39 ³⁰⁹
18	21.81 ³²	57.26 ²⁹⁹	26.503 ¹³⁰	68.06 ²⁴⁷	47.191 ¹³⁵	26.25 ²⁷	22.54 ¹⁴	57.30 ³⁰⁴
28	22.13 ³⁹	54.27 ²⁹³	26.633 ¹⁷⁴	65.59 ²²³	47.326 ¹⁶⁴	26.52 ⁷	22.68 ²⁵	54.26 ²⁸⁵
Sept. 7	22.52 ⁴⁵	51.34 ²⁸²	26.807 ²¹⁹	63.36 ¹⁹⁰	47.490 ¹⁹²	26.59 ¹⁵	22.93 ³⁵	51.41 ²⁵⁸
17	22.97 ⁵³	48.52 ²⁶⁶	27.026 ²⁶¹	61.46 ¹⁴⁹	47.682 ²²⁰	26.44 ⁴⁰	23.28 ⁴⁴	48.83 ²¹⁸
27	23.50 ⁵⁹	45.86 ²⁴⁴	27.287 ²⁹⁹	59.97 ¹⁰¹	47.902 ²⁴⁷	26.04 ⁶⁶	23.72 ⁵²	46.65 ¹⁷⁰
Okt. 7	24.09 ⁶⁴	43.42 ²¹⁷	27.586 ³³⁴	58.96 ⁴⁶	48.149 ²⁷³	25.38 ⁹⁴	24.24 ⁶⁰	44.95 ¹¹⁵
17	24.73 ⁶⁸	41.25 ¹⁸³	27.920 ³⁶¹	58.50 ¹³	48.422 ²⁹⁵	24.44 ¹²¹	24.84 ⁶⁵	43.80 ⁵¹
27	25.41 ⁷²	39.42 ¹⁴⁶	28.281 ³⁸¹	58.63 ⁷³	48.717 ³¹⁴	23.23 ¹⁴⁶	25.49 ⁶⁸	43.29 ¹⁴
Nov. 6	26.13 ⁷⁴	37.96 ¹⁰³	28.662 ³⁹¹	59.36 ¹³²	49.031 ³²⁶	21.77 ¹⁶⁷	26.17 ⁶⁹	43.43 ⁸²
16	26.87 ⁷⁴	36.93 ⁵⁷	29.053 ³⁸⁹	60.68 ¹⁸⁸	49.357 ³³¹	20.10 ¹⁸²	26.86 ⁶⁸	44.25 ¹⁴⁷
26	27.61 ⁷³	36.36 ⁸	29.442 ³⁷⁶	62.56 ²³⁸	49.688 ³²⁸	18.28 ¹⁹³	27.54 ⁶⁵	45.72 ²⁰⁹
Dez. 6	28.34 ⁶⁹	36.28 ⁴³	29.818 ³⁵²	64.94 ²⁸²	50.016 ³¹⁶	16.35 ¹⁹⁷	28.19 ⁵⁹	47.81 ²⁶⁴
16	29.03 ⁶⁴	36.71 ⁹²	30.170 ³¹⁵	67.76 ³¹⁵	50.332 ²⁹³	14.38 ¹⁹⁵	28.78 ⁵¹	50.45 ³¹¹
26	29.67 ⁵⁶	37.63 ¹³⁸	30.485 ²⁶⁸	70.91 ³³⁹	50.625 ²⁶¹	12.43 ¹⁸⁶	29.29 ⁴²	53.56 ³⁴⁷
36	30.23	39.01	30.753	74.30	50.886	10.57	29.71	57.03
Mittl. Ort sec δ , tg δ	20.88 2.604	59.00 +2.404	27.346 1.371	71.83 —0.937	46.567 1.001	22.66 +0.046	27.03 2.847	58.10 —2.665
a, a'	+5.3	—14.4	+2.2	—14.5	+3.1	—14.8	+0.7	—14.9
b, b'	—0.12	—0.69	+0.05	—0.69	0.00	—0.67	+0.13	—0.67

Obere Kulmination Greenwich

81*

Tag	350) 83 Cancri		352) 40 Lynceis		353) α Argus		354) α Hydrae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	9 ^h 15 ^m	+17° 59'	9 ^h 16 ^m	+34° 40'	9 ^h 19 ^m	—54° 42'	9 ^h 24 ^m	—8° 21'
Jan. 1	8.906 ²⁵⁸	57.28 ⁹⁶	52.616 ²⁹⁴	65.50 ⁶	59.517 ²⁷⁸	38.67 ³⁵⁸	12.494 ²⁴²	23.87 ²³⁰
11	9.164 ²¹³	56.32 ⁷¹	52.910 ²⁴⁴	65.44 ²⁷	59.795 ²⁰⁸	42.25 ³⁷⁴	12.736 ¹⁹⁹	26.17 ²²⁰
21	9.377 ¹⁶⁴	55.61 ⁴⁶	53.154 ¹⁸⁷	65.71 ⁵⁶	60.003 ¹³³	45.99 ³⁷⁹	12.935 ¹⁵¹	28.37 ²⁰⁴
31	9.541 ¹¹⁰	55.15 ²¹	53.341 ¹²⁷	66.27 ⁸²	60.136 ⁵⁷	49.78 ³⁷³	13.086 ¹⁰²	30.41 ¹⁸⁴
Feb. 9*)	9.651 ⁵⁸	54.94 ²	53.468 ⁶⁶	67.09 ¹⁰²	60.193 ¹⁷	53.51 ³⁵⁹	13.188 ⁵²	32.25 ¹⁶⁰
19	9.709 ⁷	54.96 ²¹	53.534 ⁸	68.11 ¹¹⁶	60.176 ⁸⁷	57.10 ³³⁷	13.240 ⁶	33.85 ¹³⁶
März 1	9.716 ³⁷	55.17 ³⁵	53.542 ⁴⁴	69.27 ¹²³	60.089 ¹⁴⁹	60.47 ³⁰⁷	13.246 ³⁷	35.21 ¹¹⁰
11	9.679 ⁷⁵	55.52 ⁴⁷	53.498 ⁸⁹	70.50 ¹²³	59.940 ²⁰²	63.54 ²⁷¹	13.209 ⁷²	36.31 ⁸⁴
21	9.604 ¹⁰⁵	55.99 ⁵⁴	53.409 ¹²⁵	71.73 ¹¹⁷	59.738 ²⁴⁵	66.25 ²³⁰	13.137 ¹⁰⁰	37.15 ⁵⁹
31	9.499 ¹²⁵	56.53 ⁵⁶	53.284 ¹⁵⁰	72.90 ¹⁰⁵	59.493 ²⁷⁸	68.55 ¹⁸⁷	13.037 ¹¹⁹	37.74 ³⁵
Apr. 10	9.374 ¹³⁶	57.09 ⁵⁶	53.134 ¹⁶⁴	73.95 ⁸⁸	59.215 ²⁹⁸	70.42 ¹³⁹	12.918 ¹³⁰	38.09 ¹²
20	9.238 ¹³⁹	57.65 ⁵³	52.970 ¹⁶⁸	74.83 ⁶⁹	58.917 ³⁰⁹	71.81 ⁸⁹	12.788 ¹³⁴	38.21 ¹⁰
30	9.099 ¹³³	58.18 ⁴⁷	52.802 ¹⁶²	75.52 ⁴⁷	58.608 ³¹¹	72.70 ⁴⁰	12.654 ¹³¹	38.11 ³⁰
Mai 10	8.966 ¹²⁰	58.65 ⁴⁰	52.640 ¹⁴⁹	75.99 ²⁴	58.297 ³⁰³	73.10 ¹¹	12.523 ¹²¹	37.81 ⁴⁹
20	8.846 ¹⁰³	59.05 ³³	52.491 ¹²⁹	76.23 ⁰	57.994 ²⁸⁷	72.99 ⁶⁰	12.402 ¹⁰⁷	37.32 ⁶⁷
30	8.743 ⁸²	59.38 ²⁴	52.362 ¹⁰⁴	76.23 ²³	57.707 ²⁶⁴	72.39 ¹⁰⁸	12.295 ⁸⁹	36.65 ⁸²
Juni 9	8.661 ⁵⁶	59.62 ¹⁵	52.258 ⁷⁶	76.00 ⁴⁵	57.443 ²³³	71.31 ¹⁵²	12.206 ⁶⁹	35.83 ⁹⁵
19	8.605 ³⁰	59.77 ⁶	52.182 ⁴⁴	75.55 ⁶⁶	57.210 ¹⁹⁷	69.79 ¹⁹³	12.137 ⁴⁵	34.88 ¹⁰⁶
29	8.575 ²	59.83 ³	52.138 ¹¹	74.89 ⁸⁶	57.013 ¹⁵⁵	67.86 ²²⁷	12.092 ²¹	33.82 ¹¹³
Juli 9	8.573 ²⁶	59.80 ¹⁴	52.127 ²⁴	74.03 ¹⁰³	56.858 ¹⁰⁹	65.59 ²⁵⁵	12.071 ⁵	32.69 ¹¹⁸
19	8.599 ⁵⁵	59.66 ²⁵	52.151 ⁵⁷	73.00 ¹¹⁹	56.749 ⁵⁸	63.04 ²⁷⁵	12.076 ³²	31.51 ¹¹⁷
29	8.654 ⁸⁴	59.41 ³⁶	52.208 ⁹²	71.81 ¹³⁴	56.691 ³	60.29 ²⁸⁷	12.108 ⁵⁹	30.34 ¹¹²
Aug. 8	8.738 ¹¹³	59.05 ⁴⁹	52.300 ¹²⁵	70.47 ¹⁴⁶	56.688 ⁵⁴	57.42 ²⁸⁸	12.167 ⁸⁸	29.22 ¹⁰²
18	8.851 ¹⁴²	58.56 ⁶⁴	52.425 ¹⁵⁹	69.01 ¹⁵⁸	56.742 ¹¹³	54.54 ²⁸⁰	12.255 ¹¹⁷	28.20 ⁸⁷
28	8.993 ¹⁷¹	57.92 ⁷⁹	52.584 ¹⁹³	67.43 ¹⁶⁸	56.855 ¹⁷⁴	51.74 ²⁶¹	12.372 ¹⁴⁶	27.33 ⁶⁶
Sept. 7	9.164 ²⁰⁰	57.13 ⁹⁵	52.777 ²²⁶	65.75 ¹⁷⁶	57.029 ²³³	49.13 ²³³	12.518 ¹⁷⁷	26.67 ⁴¹
17	9.364 ²²⁹	56.18 ¹¹¹	53.003 ²⁵⁹	63.99 ¹⁸²	57.262 ²⁸⁹	46.80 ¹⁹²	12.695 ²⁰⁷	26.26 ¹²
27	9.593 ²⁵⁸	55.07 ¹²⁷	53.262 ²⁹¹	62.17 ¹⁸⁵	57.551 ³⁴²	44.88 ¹⁴⁴	12.902 ²³⁶	26.14 ²²
Okt. 7	9.851 ²⁸⁴	53.80 ¹⁴¹	53.553 ³²¹	60.32 ¹⁸⁵	57.893 ³⁸⁸	43.44 ⁸⁹	13.138 ²⁶⁴	26.36 ⁵⁷
17	10.135 ³⁰⁸	52.39 ¹⁵³	53.874 ³⁴⁷	58.47 ¹⁸¹	58.281 ⁴²⁵	42.55 ²⁸	13.402 ²⁸⁹	26.93 ⁹³
27	10.443 ³²⁸	50.86 ¹⁶³	54.221 ³⁷⁰	56.66 ¹⁷³	58.706 ⁴⁵²	42.27 ³⁶	13.691 ³⁰⁹	27.86 ¹²⁹
Nov. 6	10.771 ³⁴²	49.23 ¹⁶⁷	54.591 ³⁸⁶	54.93 ¹⁶⁰	59.158 ⁴⁶⁶	42.63 ⁹⁹	14.000 ³²⁴	29.15 ¹⁶¹
16	11.113 ³⁴⁹	47.56 ¹⁶⁷	54.977 ³⁹³	53.33 ¹⁴²	59.624 ⁴⁶⁶	43.62 ¹⁶²	14.324 ³³⁰	30.76 ¹⁸⁸
26	11.462 ³⁴⁷	45.89 ¹⁶¹	55.370 ³⁹²	51.91 ¹¹⁹	60.090 ⁴⁵⁰	45.24 ²¹⁹	14.654 ³²⁹	32.64 ²¹¹
Dez. 6	11.809 ³³⁵	44.28 ¹⁴⁹	55.762 ³⁷⁹	50.72 ⁹¹	60.540 ⁴²⁰	47.43 ²⁷⁰	14.983 ³¹⁷	34.75 ²²⁶
16	12.144 ³¹³	42.79 ¹³³	56.141 ³⁵⁵	49.81 ⁶¹	60.960 ³⁷⁷	50.13 ³¹³	15.300 ²⁹⁶	37.01 ²³⁵
26	12.457 ²⁸²	41.46 ¹¹²	56.496 ³²¹	49.20 ²⁸	61.337 ³²⁰	53.26 ³⁴⁵	15.596 ²⁶⁶	39.36 ²³⁵
36	12.739	40.34	56.817	48.92	61.657	56.71	15.862	41.71
Mittl. Ort	8.026	55.74	51.455	67.28	58.517	55.61	11.843	31.20
sec δ , tg δ	1.051	+0.325	1.216	+0.692	1.731	—1.413	1.011	—0.147
a, a'	+3.4	—15.1	+3.7	—15.2	+1.9	—15.4	+2.9	—15.6
b, b'	—0.02	—0.66	—0.03	—0.65	+0.07	—0.64	+0.01	—0.63

*) Bei Stern 352), 353) und 354) lies Feb. 10

F 31

Tag	355) δ Ursae maj.		359) ψ Argus		358) η Ursae maj.		357) d Ursae maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	9 ^h 26 ^m	+63° 21'	9 ^h 27 ^m	−40° 9'	9 ^h 28 ^m	+51° 59'	9 ^h 28 ^m	+70° 7'
Jan. 1	9.24 ⁴⁸	47.25 ¹²⁸	59.510 ²⁵⁷	35.42 ³³⁵	16.985 ³⁷⁸	28.98 ⁷³	28.47 ⁶⁰	59.30 ¹⁵⁴
11	9.72 ⁴⁰	48.53 ¹⁷⁰	59.767 ²⁰³	38.77 ³⁴⁴	17.363 ³¹⁵	29.71 ¹¹³	29.07 ⁵⁰	60.84 ¹⁹⁷
21	10.12 ³¹	50.23 ²⁰⁴	59.970 ¹⁴⁵	42.21 ³⁴⁴	17.678 ²⁴³	30.84 ¹⁴⁷	29.57 ³⁸	62.81 ²³¹
31	10.43 ²⁰	52.27 ²³⁰	60.115 ⁸⁵	45.65 ³³⁴	17.921 ¹⁶⁷	32.31 ¹⁷³	29.95 ²⁵	65.12 ²⁵⁶
Feb. 10	10.63 ¹⁰	54.57 ²⁴⁴	60.200 ²⁶	48.99 ³¹⁷	18.088 ⁸⁸	34.04 ¹⁹²	30.20 ¹¹	67.68 ²⁷⁰
19	10.73 ¹	57.01 ²⁴⁹	60.226 ³⁰	52.16 ²⁹³	18.176 ¹¹	35.96 ²⁰²	30.31 ²	70.38 ²⁷¹
März 1	10.72 ¹⁰	59.50 ²⁴³	60.196 ⁸⁰	55.09 ²⁶⁴	18.187 ⁶¹	37.98 ²⁰²	30.29 ¹⁵	73.09 ²⁶³
11	10.62 ¹⁹	61.93 ²²⁶	60.116 ¹²³	57.73 ²²⁹	18.126 ¹²²	40.00 ¹⁹²	30.14 ²⁶	75.72 ²⁴³
21	10.43 ²⁵	64.19 ²⁰⁰	59.993 ¹⁵⁶	60.02 ¹⁹²	18.004 ¹⁷²	41.92 ¹⁷⁵	29.88 ³⁵	78.15 ²¹²
31	10.18 ³¹	66.19 ¹⁶⁶	59.837 ¹⁸²	61.94 ¹⁵¹	17.832 ²¹⁰	43.67 ¹⁵⁰	29.53 ⁴³	80.27 ¹⁷⁵
Apr. 10	9.87 ³⁵	67.85 ¹²⁶	59.655 ¹⁹⁹	63.45 ¹⁰⁹	17.622 ²³⁵	45.17 ¹¹⁹	29.10 ⁴⁸	82.02 ¹³⁰
20	9.52 ³⁶	69.11 ⁸²	59.456 ²⁰⁶	64.54 ⁶⁶	17.387 ²⁴⁵	46.36 ⁸⁴	28.62 ⁵⁰	83.32 ⁸¹
30	9.16 ³⁶	69.93 ³⁵	59.250 ²⁰⁶	65.20 ²²	17.142 ²⁴³	47.20 ⁴⁶	28.12 ⁵⁰	84.13 ³¹
Mai 10	8.80 ³⁵	70.28 ¹¹	59.044 ²⁰⁰	65.42 ²²	16.899 ²³⁰	47.66 ⁸	27.62 ⁴⁸	84.44 ²⁰
20	8.45 ³¹	70.17 ⁵⁸	58.844 ¹⁸⁶	65.20 ⁶⁴	16.669 ²⁰⁸	47.74 ³¹	27.14 ⁴⁵	84.24 ⁷¹
30	8.14 ²⁷	69.59 ¹⁰¹	58.658 ¹⁶⁸	64.56 ¹⁰⁴	16.461 ¹⁷⁸	47.43 ⁶⁸	26.69 ⁴⁰	83.53 ¹¹⁸
Juni 9	7.87 ²²	68.58 ¹⁴³	58.490 ¹⁴⁵	63.52 ¹⁴²	16.283 ¹⁴²	46.75 ¹⁰³	26.29 ³⁴	82.35 ¹⁶²
19	7.65 ¹⁷	67.15 ¹⁷⁹	58.345 ¹¹⁸	62.10 ¹⁷⁵	16.141 ¹⁰¹	45.72 ¹³⁶	25.95 ²⁶	80.73 ²⁰²
29	7.48 ¹¹	65.36 ²¹²	58.227 ⁸⁸	60.35 ²⁰⁴	16.040 ⁵⁸	44.36 ¹⁶⁴	25.69 ¹⁷	78.71 ²³⁶
Juli 9	7.37 ⁴	63.24 ²³⁸	58.139 ⁵⁴	58.31 ²²⁵	15.982 ¹²	42.72 ¹⁹⁰	25.52 ¹⁰	76.35 ²⁶⁴
19	7.33 ³	60.86 ²⁶¹	58.085 ¹⁹	56.06 ²⁴¹	15.970 ³⁵	40.82 ²¹¹	25.42 ⁰	73.71 ²⁸⁷
29	7.36 ⁹	58.25 ²⁷⁸	58.066 ²⁰	53.65 ²⁴⁸	16.005 ⁸²	38.71 ²²⁸	25.42 ¹⁰	70.84 ³⁰⁴
Aug. 8	7.45 ¹⁶	55.47 ²⁸⁹	58.086 ⁶⁰	51.17 ²⁴⁶	16.087 ¹²⁹	36.43 ²⁴¹	25.52 ¹⁸	67.80 ³¹⁴
18	7.61 ²³	52.58 ²⁹⁵	58.146 ¹⁰²	48.71 ²³⁷	16.216 ¹⁷⁶	34.02 ²⁵⁰	25.70 ²⁷	64.66 ³¹⁹
28	7.84 ²⁹	49.63 ²⁹⁵	58.248 ¹⁴⁶	46.34 ²¹⁷	16.392 ²²²	31.52 ²⁵⁶	25.97 ³⁶	61.47 ³¹⁷
Sept. 7	8.13 ³⁶	46.68 ²⁹⁰	58.394 ¹⁸⁹	44.17 ¹⁸⁷	16.614 ²⁶⁸	28.96 ²⁵⁷	26.33 ⁴⁴	58.30 ³⁰⁹
17	8.49 ⁴²	43.78 ²⁸⁰	58.583 ²³¹	42.30 ¹⁵¹	16.882 ³¹²	26.39 ²⁵²	26.77 ⁵²	55.21 ²⁹⁵
27	8.91 ⁴⁷	40.98 ²⁶⁴	58.814 ²⁷²	40.79 ¹⁰⁵	17.194 ³⁵⁵	23.87 ²⁴⁵	27.29 ⁶⁰	52.26 ²⁷⁵
Okt. 7	9.38 ⁵³	38.34 ²⁴¹	59.086 ³⁰⁸	39.74 ⁵⁴	17.549 ³⁹⁵	21.42 ²³²	27.89 ⁶⁷	49.51 ²⁴⁹
17	9.91 ⁵⁷	35.93 ²¹³	59.394 ³⁴⁰	39.20 ²	17.944 ⁴³¹	19.10 ²¹²	28.56 ⁷³	47.02 ²¹⁷
27	10.48 ⁶¹	33.80 ¹⁸⁰	59.734 ³⁶⁴	39.22 ⁵⁹	18.375 ⁴⁶¹	16.98 ¹⁸⁹	29.29 ⁷⁷	44.85 ¹⁷⁸
Nov. 6	11.09 ⁶⁴	32.00 ¹⁴¹	60.098 ³⁸⁰	39.81 ¹¹⁷	18.836 ⁴⁸²	15.09 ¹⁵⁹	30.06 ⁸¹	43.07 ¹³⁴
16	11.73 ⁶⁵	30.59 ⁹⁸	60.478 ³⁸⁴	40.98 ¹⁷²	19.318 ⁴⁹⁴	13.50 ¹²⁵	30.87 ⁸²	41.73 ⁸⁷
26	12.38 ⁶⁴	29.61 ⁵⁰	60.862 ³⁷⁷	42.70 ²²²	19.812 ⁴⁹⁴	12.25 ⁸⁵	31.69 ⁸²	40.86 ³⁵
Dez. 6	13.02 ⁶²	29.11 ⁰	61.239 ³⁵⁹	44.92 ²⁶⁵	20.306 ⁴⁸⁰	11.40 ⁴³	32.51 ⁷⁹	40.51 ¹⁹
16	13.64 ⁵⁹	29.11 ⁴⁹	61.598 ³²⁹	47.57 ³⁰⁰	20.786 ⁴⁵¹	10.97 ⁰	33.30 ⁷⁴	40.70 ⁷²
26	14.23 ⁵³	29.60 ⁹⁹	61.927 ²⁸⁸	50.57 ³²⁵	21.237 ⁴⁰⁹	10.97 ⁴³	34.04 ⁶⁶	41.42 ¹²²
36	14.76	30.59	62.215	53.82	21.646	11.40	34.70	42.64
Mittl. Ort	6.66	53.56	58.815	49.98	15.259	34.22	24.92	66.30
sec δ , tg δ	2.231	+1.994	1.309	−0.844	1.624	+1.280	2.943	+2.768
a, a'	+4.7	−15.7	+2.4	−15.8	+4.1	−15.8	+5.3	−15.8
b, b'	−0.10	−0.62	+0.04	−0.62	−0.07	−0.61	−0.15	−0.61

Tag	360) 10 Leonis min.		366) ♀ Antliae		367) ε Leonis		369) υ Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	9 ^h 30 ^m	+36° 41'	9 ^h 41 ^m	−27° 26'	9 ^h 41 ^m	+24° 5'	9 ^h 45 ^m	−64° 44'
Jan. I	1.369 ³¹²	74.75 ⁴	8.027 ²⁵⁸	58.37 ³⁰⁰	57.205 ²⁹⁰	33.01 ⁷⁹	23.74 ³⁸	46.31 ³⁴⁸
II	1.681 ²⁶²	74.71 ³⁰	8.285 ²¹³	61.37 ³⁰³	57.495 ²⁴⁶	32.22 ⁴⁸	24.12 ²⁹	49.79 ³⁷³
21	1.943 ²⁰⁶	75.01 ⁶²	8.408 ¹⁶³	64.40 ²⁹⁸	57.741 ¹⁹⁸	31.74 ¹⁸	24.41 ²⁰	53.52 ³⁸⁷
31	2.149 ¹⁴⁶	75.63 ⁹⁰	8.661 ¹¹⁰	67.38 ²⁸⁶	57.939 ¹⁴⁴	31.56 ⁹	24.61 ¹⁰	57.39 ³⁹¹
Feb. 10	2.295 ⁸³	76.53 ¹¹³	8.771 ⁵⁷	70.24 ²⁶⁶	58.083 ⁸⁹	31.65 ³⁵	24.71 ⁰	61.30 ³⁸⁶
19	2.378 ²³	77.66 ¹²⁷	8.828 ⁶	72.90 ²⁴³	58.172 ³⁶	32.00 ⁵⁶	24.71 ⁸	65.16 ³⁷⁰
März I	2.401 ³²	78.93 ¹³⁶	8.834 ³⁹	75.33 ²¹⁵	58.208 ¹³	32.56 ⁷²	24.63 ¹⁷	68.86 ³⁴⁸
II	2.369 ⁷⁹	80.29 ¹³⁶	8.795 ⁷⁸	77.48 ¹⁸³	58.195 ⁵⁵	33.28 ⁸¹	24.46 ²⁵	72.34 ³¹⁷
21	2.290 ¹¹⁷	81.65 ¹³⁰	8.717 ¹¹⁰	79.31 ¹⁵⁰	58.140 ⁸⁹	34.09 ⁸⁶	24.21 ³¹	75.51 ²⁸¹
31	2.173 ¹⁴⁶	82.95 ¹¹⁸	8.607 ¹³³	80.81 ¹¹⁶	58.051 ¹¹⁴	34.95 ⁸⁶	23.90 ³⁶	78.32 ²³⁹
Apr. 10	2.027 ¹⁶²	84.13 ¹⁰¹	8.474 ¹⁴⁹	81.97 ⁸⁰	57.937 ¹³¹	35.81 ⁸⁰	23.54 ³⁹	80.71 ¹⁹⁴
20	1.865 ¹⁶⁹	85.14 ⁸⁰	8.325 ¹⁵⁶	82.77 ⁴⁵	57.806 ¹³⁸	36.61 ⁷²	23.15 ⁴²	82.65 ¹⁴⁴
30	1.696 ¹⁶⁷	85.94 ⁵⁶	8.169 ¹⁵⁷	83.22 ⁹	57.668 ¹³⁷	37.33 ⁶¹	22.73 ⁴⁴	84.09 ⁹³
Mai 10	1.529 ¹⁵⁶	86.50 ³⁰	8.012 ¹⁵²	83.31 ²⁶	57.531 ¹²⁹	37.94 ⁴⁷	22.29 ⁴⁴	85.02 ⁴¹
20	1.373 ¹³⁹	86.80 ⁴	7.860 ¹⁴¹	83.05 ⁵⁹	57.402 ¹¹⁶	38.41 ³²	21.85 ⁴³	85.43 ¹²
30	1.234 ¹¹⁵	86.84 ²¹	7.719 ¹²⁶	82.46 ⁹¹	57.286 ⁹⁷	38.73 ¹⁷	21.42 ⁴¹	85.31 ⁶⁵
Juni 9	1.119 ⁸⁸	86.63 ⁴⁷	7.593 ¹⁰⁸	81.55 ¹²⁰	57.189 ⁷⁶	38.90 ¹	21.01 ³⁸	84.66 ¹¹⁵
19	1.031 ⁵⁸	86.16 ⁷⁰	7.485 ⁸⁶	80.35 ¹⁴⁵	57.113 ⁵¹	38.91 ¹⁴	20.63 ³⁴	83.51 ¹⁶¹
29	0.973 ²⁵	85.46 ⁹¹	7.399 ⁶¹	78.90 ¹⁶⁷	57.062 ²⁶	38.77 ²⁹	20.29 ²⁹	81.90 ²⁰³
Juli 9	0.948 ⁸	84.55 ¹¹²	7.338 ³⁴	77.23 ¹⁸³	57.036 ²	38.48 ⁴⁶	20.00 ²³	79.87 ²³⁹
19	0.956 ⁴²	83.43 ¹³⁰	7.304 ⁶	75.40 ¹⁹³	57.038 ³⁰	38.02 ⁶¹	19.77 ¹⁷	77.48 ²⁶⁷
29	0.998 ⁷⁷	82.13 ¹⁴⁷	7.298 ²⁶	73.47 ¹⁹⁷	57.068 ⁵⁹	37.41 ⁷⁶	19.60 ¹⁰	74.81 ²⁸⁸
Aug. 8	1.075 ¹¹²	80.66 ¹⁶¹	7.324 ⁵⁸	71.50 ¹⁹³	57.127 ⁸⁹	36.65 ⁹¹	19.50 ¹	71.93 ²⁹⁸
18	1.187 ¹⁴⁶	79.05 ¹⁷⁴	7.382 ⁹²	69.57 ¹⁸³	57.216 ¹¹⁹	35.74 ¹⁰⁶	19.49 ⁶	68.95 ²⁹⁸
28	1.333 ¹⁸²	77.31 ¹⁸⁵	7.474 ¹²⁸	67.74 ¹⁶³	57.335 ¹⁵⁰	34.68 ¹²²	19.55 ¹⁵	65.97 ²⁸⁸
Sept. 7	1.515 ²¹⁶	75.46 ¹⁹²	7.602 ¹⁶⁴	66.11 ¹³⁷	57.485 ¹⁸¹	33.46 ¹³⁶	19.70 ²⁴	63.09 ²⁶⁵
17	1.731 ²⁵¹	73.54 ¹⁹⁹	7.766 ²⁰¹	64.74 ¹⁰³	57.666 ²¹³	32.10 ¹⁵¹	19.94 ³²	60.44 ²³³
27	1.982 ²⁸⁵	71.55 ²⁰²	7.967 ²³⁷	63.71 ⁶³	57.879 ²⁴⁵	30.59 ¹⁶³	20.26 ⁴⁰	58.11 ¹⁹⁰
Okt. 7	2.267 ³¹⁸	69.53 ²⁰¹	8.204 ²⁷¹	63.08 ¹⁷	58.124 ²⁷⁶	28.96 ¹⁷⁴	20.66 ⁴⁷	56.21 ¹³⁸
17	2.585 ³⁴⁷	67.52 ¹⁹⁶	8.475 ³⁰¹	62.91 ³¹	58.400 ³⁰⁵	27.22 ¹⁸¹	21.13 ⁵²	54.83 ⁸⁰
27	2.932 ³⁷²	65.56 ¹⁸⁶	8.776 ³²⁵	63.22 ⁸¹	58.705 ³³⁰	25.41 ¹⁸⁵	21.65 ⁵⁷	54.03 ¹⁶
Nov. 6	3.304 ³⁹¹	63.70 ¹⁷¹	9.101 ³⁴³	64.03 ¹²⁹	59.035 ³⁴⁹	23.56 ¹⁸⁴	22.22 ⁶⁰	53.87 ⁴⁹
16	3.695 ⁴⁰¹	61.99 ¹⁵²	9.444 ³⁵²	65.32 ¹⁷⁵	59.384 ³⁶¹	21.72 ¹⁷⁷	22.82 ⁶⁰	54.36 ¹¹⁶
26	4.096 ⁴⁰³	60.47 ¹²⁷	9.796 ³⁵⁰	67.07 ²¹⁷	59.745 ³⁶⁴	19.95 ¹⁶⁵	23.42 ⁵⁹	55.52 ¹⁷⁹
Dez. 6	4.499 ³⁹²	59.20 ⁹⁶	10.146 ³³⁹	69.24 ²⁵⁰	60.109 ³⁵⁷	18.30 ¹⁴⁷	24.01 ⁵⁵	57.31 ²³⁶
16	4.891 ³⁷¹	58.24 ⁶⁴	10.485 ³¹⁷	71.74 ²⁷⁸	60.466 ³⁴⁰	16.83 ¹²⁵	24.56 ⁵⁰	59.67 ²⁸⁷
26	5.262 ³³⁸	57.60 ²⁹	10.802 ²⁸⁵	74.52 ²⁹⁵	60.806 ³¹²	15.58 ⁹⁸	25.06 ⁴⁴	62.54 ³²⁹
36	5.600	57.31	11.087	77.47	61.118	14.60	25.50	65.83
Mittl. Ort	0.204	77.70	7.477	70.27	56.337	34.02	22.68	65.52
sec δ, tg δ	1.247	+0.746	1.127	−0.520	1.095	+0.447	2.344	−2.120
a, a'	+3.7	−15.9	+2.7	−16.5	+3.4	−16.5	+1.5	−16.7
b, b'	−0.04	−0.61	+0.03	−0.57	−0.02	−0.57	+0.12	−0.55

Tag	368) ν Ursae maj.		370) δ Sextantis		372) γ Grb 1586		378) π Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	9 ^h 46 ^m	+59° 21'	9 ^h 47 ^m	—3° 55'	9 ^h 52 ^m	+73° 12'	9 ^h 56 ^m	+8° 22'
Jan. I	8.139 ₄₆₁	44.19 ₉₁	46.025 ₂₆₂	3.51 ₂₁₅	19.43 ₇₅	22.49 ₁₃₉	34.771 ₂₇₇	35.88 ₁₆₂
II	8.600 ₃₉₂	45.10 ₁₃₅	46.287 ₂₂₃	5.66 ₂₀₂	20.18 ₆₃	23.88 ₁₈₆	35.048 ₂₃₈	34.26 ₁₄₂
21	8.992 ₃₁₀	46.45 ₁₇₃	46.510 ₁₇₇	7.68 ₁₈₅	20.81 ₅₀	25.74 ₂₂₆	35.286 ₁₉₄	32.84 ₁₁₇
31	9.302 ₂₂₁	48.18 ₂₀₃	46.687 ₁₂₉	9.53 ₁₆₃	21.31 ₃₅	28.00 ₂₅₇	35.480 ₁₄₅	31.67 ₉₁
Feb. 10	9.523 ₁₂₈	50.21 ₂₂₅	46.816 ₇₉	11.16 ₁₄₀	21.66 ₁₉	30.57 ₂₇₆	35.625 ₉₅	30.76 ₆₆
17	9.651 ₃₆	52.46 ₂₃₆	46.895 ₃₂	12.56 ₁₁₅	21.85 ₄	33.33 ₂₈₃	35.720 ₄₆	30.10 ₄₂
März I	9.687 ₅₁	54.82 ₂₃₆	46.927 ₁₁	13.71 ₉₀	21.89 ₁₂	36.16 ₂₇₉	35.766 ₂	29.68 ₁₉
II	9.636 ₁₂₈	57.18 ₂₂₆	46.916 ₄₈	14.61 ₆₇	21.77 ₂₅	38.95 ₂₆₂	35.768 ₃₇	29.49 ₀
21	9.508 ₁₉₄	59.44 ₂₀₇	46.868 ₇₉	15.28 ₄₄	21.52 ₃₇	41.57 ₂₃₆	35.731 ₇₀	29.49 ₁₆
31	9.314 ₂₄₅	61.51 ₁₇₉	46.789 ₁₀₁	15.72 ₂₂	21.15 ₄₇	43.93 ₂₀₀	35.661 ₉₃	29.65 ₂₉
Apr. 10	9.069 ₂₈₀	63.30 ₁₄₄	46.688 ₁₁₅	15.94 ₃	20.68 ₅₄	45.93 ₁₅₇	35.568 ₁₁₀	29.94 ₃₈
20	8.789 ₃₀₁	64.74 ₁₀₄	46.573 ₁₂₂	15.97 ₁₄	20.14 ₅₈	47.50 ₁₀₈	35.458 ₁₁₈	30.32 ₄₅
30	8.488 ₃₀₇	65.78 ₆₂	46.451 ₁₂₃	15.83 ₃₁	19.56 ₆₀	48.58 ₅₇	35.340 ₁₁₉	30.77 ₄₉
Mai 10	8.181 ₂₉₈	66.40 ₁₇	46.328 ₁₁₇	15.52 ₄₅	18.96 ₆₀	49.15 ₃	35.221 ₁₁₅	31.26 ₅₁
20	7.883 ₂₇₈	66.57 ₂₈	46.211 ₁₀₆	15.07 ₅₇	18.36 ₅₇	49.18 ₅₀	35.106 ₁₀₅	31.77 ₅₂
30	7.605 ₂₄₇	66.29 ₇₁	46.105 ₉₂	14.50 ₆₈	17.79 ₅₃	48.68 ₁₀₁	35.001 ₉₁	32.29 ₅₁
Juni 9	7.358 ₂₀₉	65.58 ₁₁₃	46.013 ₇₅	13.82 ₇₇	17.26 ₄₆	47.67 ₁₄₉	34.910 ₇₅	32.80 ₄₈
19	7.149 ₁₆₅	64.45 ₁₅₁	45.938 ₅₄	13.05 ₈₅	16.80 ₃₈	46.18 ₁₉₂	34.835 ₅₄	33.28 ₄₅
29	6.984 ₁₁₅	62.94 ₁₈₄	45.884 ₃₃	12.20 ₈₉	16.42 ₂₉	44.26 ₂₃₁	34.781 ₃₃	33.73 ₃₉
Juli 9	6.869 ₆₁	61.10 ₂₁₅	45.851 ₁₀	11.31 ₉₀	16.13 ₂₀	41.95 ₂₆₅	34.748 ₁₀	34.12 ₃₂
19	6.808 ₆	58.95 ₂₄₁	45.841 ₁₅	10.41 ₈₈	15.93 ₁₀	39.30 ₂₉₂	34.738 ₁₃	34.44 ₂₄
29	6.802 ₅₀	56.54 ₂₆₁	45.856 ₄₁	9.53 ₈₃	15.83 ₀	36.38 ₃₁₃	34.751 ₃₉	34.68 ₁₃
Aug. 8	6.852 ₁₀₈	53.93 ₂₇₆	45.897 ₆₇	8.70 ₇₂	15.83 ₁₁	33.25 ₃₂₈	34.790 ₆₆	34.81 ₁
18	6.960 ₁₆₆	51.17 ₂₈₇	45.964 ₉₆	7.68 ₅₇	15.94 ₂₂	29.97 ₃₃₆	34.856 ₉₄	34.80 ₁₆
28	7.126 ₂₂₃	48.30 ₂₉₃	46.060 ₁₂₆	7.41 ₃₉	16.16 ₃₃	26.61 ₃₃₉	34.950 ₁₂₂	34.64 ₃₅
Sept. 7	7.349 ₂₈₀	45.37 ₂₉₃	46.186 ₁₅₇	7.02 ₁₅	16.49 ₄₃	23.22 ₃₃₄	35.072 ₁₅₃	34.29 ₅₅
17	7.629 ₃₃₆	42.44 ₂₈₈	46.343 ₁₈₇	6.87 ₁₁	16.92 ₅₃	19.88 ₃₂₂	35.225 ₁₈₅	33.74 ₇₇
27	7.965 ₃₉₁	39.56 ₂₇₇	46.530 ₂₁₉	6.98 ₄₂	17.45 ₆₂	16.66 ₃₀₄	35.410 ₂₁₆	32.97 ₁₀₀
Okt. 7	8.356 ₄₄₁	36.79 ₂₆₀	46.749 ₂₅₀	7.40 ₇₃	18.07 ₇₁	13.62 ₂₇₉	35.626 ₂₄₇	31.97 ₁₂₃
17	8.797 ₄₈₇	34.19 ₂₃₇	46.999 ₂₇₈	8.13 ₁₀₅	18.78 ₇₉	10.83 ₂₄₈	35.873 ₂₇₆	30.74 ₁₄₅
27	9.284 ₅₂₆	31.82 ₂₀₉	47.277 ₃₀₁	9.18 ₁₃₆	19.57 ₈₆	8.35 ₂₁₀	36.149 ₃₀₂	29.29 ₁₆₄
Nov. 6	9.810 ₅₅₇	29.73 ₁₇₄	47.578 ₃₂₀	10.54 ₁₆₄	20.43 ₉₀	6.25 ₁₆₆	36.451 ₃₂₂	27.65 ₁₈₁
16	10.367 ₅₇₅	27.99 ₁₃₄	47.898 ₃₃₁	12.18 ₁₈₈	21.33 ₉₄	4.59 ₁₁₆	36.773 ₃₃₆	25.84 ₁₉₁
26	10.942 ₅₇₉	26.65 ₈₉	48.229 ₃₃₄	14.06 ₂₀₆	22.27 ₉₄	3.43 ₆₃	37.109 ₃₄₁	23.93 ₁₉₇
Dez. 6	11.521 ₅₆₈	25.76 ₄₁	48.563 ₃₂₈	16.12 ₂₁₉	23.21 ₉₂	2.80 ₇	37.450 ₃₃₇	21.96 ₁₉₆
16	12.089 ₅₄₁	25.35 ₁₀	48.891 ₃₁₀	18.31 ₂₂₃	24.13 ₈₈	2.73 ₅₀	37.787 ₃₂₂	20.00 ₁₈₈
26	12.630 ₄₉₅	25.45 ₅₈	49.201 ₂₈₄	20.54 ₂₂₁	25.01 ₈₀	3.23 ₁₀₄	38.109 ₂₉₈	18.12 ₁₇₅
36	13.125	26.03	49.485	22.75	25.81	4.27	38.407	16.37
Mittl. Ort	6.029	51.67	45.458	9.33	15.39	31.62	34.153	33.60
sec δ , tg δ	1.962	+1.688	1.002	—0.068	3.462	+3.314	1.011	+0.147
a, a'	+4.3	—16.7	+3.0	—16.8	+5.4	—17.0	+3.2	—17.2
b, b'	—0.09	—0.55	0.00	—0.55	—0.19	—0.53	—0.01	—0.51

Tag	379) γ Leonis		380) α Leonis		381) λ Hydrae		382) η Velorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$10^h 3^m$	$+17^\circ 5'$	$10^h 4^m$	$+12^\circ 17'$	$10^h 7^m$	$-12^\circ 0'$	$10^h 11^m$	$-41^\circ 46'$
Jan. I	35.107 ²⁹³	59.03 ¹²⁵	42.610 ²⁸⁷	79.16 ¹⁴⁷	13.895 ²⁷⁵	36.77 ²⁴⁷	50.484 ³⁰⁹	30.72 ³²⁰
II	35.400 ²⁵⁴	57.78 ⁹⁷	42.897 ²⁴⁸	77.69 ¹²⁴	14.170 ²³⁶	39.24 ²⁴²	50.793 ²⁶⁰	33.92 ³³⁶
21	35.654 ²⁰⁹	56.81 ⁶⁹	43.145 ²⁰⁴	76.45 ⁹⁷	14.406 ¹⁹²	41.66 ²³⁰	51.053 ²⁰⁵	37.28 ³⁴⁴
31	35.863 ¹⁵⁹	56.12 ⁴¹	43.349 ¹⁵⁶	75.48 ⁷⁰	14.598 ¹⁴⁴	43.96 ²¹³	51.258 ¹⁴⁶	40.72 ³⁴²
Feb. 10	36.022 ¹⁰⁷	55.71 ¹³	43.505 ¹⁰⁵	74.78 ⁴³	14.742 ⁹⁵	46.09 ¹⁹¹	51.404 ⁸⁷	44.14 ³³²
20	36.129 ⁵⁷	55.58 ¹²	43.610 ⁵⁶	74.35 ¹⁸	14.837 ⁴⁷	48.00 ¹⁶⁷	51.491 ³⁰	47.46 ³¹⁵
März I	36.186 ¹⁰	55.70 ³²	43.666 ¹⁰	74.17 ³	14.884 ³	49.67 ¹⁴¹	51.521 ²⁴	50.61 ²⁹¹
II	36.196 ³²	56.02 ⁴⁸	43.676 ³⁰	74.20 ²²	14.887 ³⁵	51.08 ¹¹⁴	51.497 ⁷¹	53.52 ²⁶²
21	36.164 ⁶⁶	56.50 ⁵⁹	43.646 ⁶⁴	74.42 ³⁶	14.852 ⁶⁷	52.22 ⁸⁸	51.426 ¹¹⁰	56.14 ²²⁹
31	36.098 ⁹³	57.09 ⁶⁶	43.582 ⁸⁵	74.78 ⁴⁷	14.785 ⁹¹	53.10 ⁶³	51.316 ¹⁴³	58.43 ¹⁹²
Apr. 10	36.005 ¹¹⁰	57.75 ⁶⁹	43.493 ¹⁰⁷	75.25 ⁵³	14.694 ¹⁰⁹	53.73 ³⁷	51.173 ¹⁶⁷	60.35 ¹⁵³
20	35.895 ¹²¹	58.44 ⁶⁷	43.386 ¹¹⁷	75.78 ⁵⁶	14.585 ¹¹⁹	54.10 ¹⁴	51.006 ¹⁸³	61.88 ¹¹¹
30	35.774 ¹²³	59.11 ⁶³	43.269 ¹²⁰	76.34 ⁵⁶	14.466 ¹²²	54.24 ⁹	50.823 ¹⁹²	62.99 ⁶⁹
Mai 10	35.651 ¹²⁰	59.74 ⁵⁶	43.149 ¹¹⁶	76.90 ⁵⁵	14.344 ¹²¹	54.15 ³¹	50.631 ¹⁹⁵	63.68 ²⁶
20	35.531 ¹¹⁰	60.30 ⁴⁸	43.033 ¹⁰⁷	77.45 ⁵¹	14.223 ¹¹³	53.84 ⁵¹	50.436 ¹⁹⁰	63.94 ¹⁸
30	35.421 ⁹⁷	60.78 ³⁸	42.926 ⁹⁵	77.96 ⁴⁶	14.110 ¹⁰³	53.33 ⁶⁹	50.246 ¹⁸¹	63.76 ⁵⁹
Juni 9	35.324 ⁸⁰	61.16 ²⁷	42.831 ⁷⁸	78.42 ³⁹	14.007 ⁸⁸	52.64 ⁸⁵	50.065 ¹⁶⁷	63.17 ⁹⁹
19	35.244 ⁶⁰	61.43 ¹⁶	42.753 ⁶⁰	78.81 ³²	13.919 ⁷²	51.79 ⁹⁹	49.898 ¹⁴⁸	62.18 ¹³⁶
29	35.184 ³⁸	61.59 ⁴	42.693 ³⁹	79.13 ²³	13.847 ⁵²	50.80 ¹⁰⁹	49.750 ¹²⁵	60.82 ¹⁶⁹
Juli 9	35.146 ¹⁵	61.63 ⁹	42.654 ¹⁶	79.36 ¹⁴	13.795 ³¹	49.71 ¹¹⁷	49.625 ⁹⁸	59.13 ¹⁹⁶
19	35.131 ⁹	61.54 ²³	42.638 ⁸	79.50 ²	13.764 ⁸	48.54 ¹²⁰	49.527 ⁶⁷	57.17 ²¹⁹
29	35.140 ³⁵	61.31 ³⁸	42.646 ³²	79.52 ¹⁰	13.756 ¹⁷	47.34 ¹¹⁹	49.460 ³¹	54.98 ²³²
Aug. 8	35.175 ⁶³	60.93 ⁵³	42.678 ⁵⁹	79.42 ²⁵	13.773 ⁴⁴	46.15 ¹¹¹	49.429 ⁷	52.66 ²³⁹
18	35.238 ⁹¹	60.40 ⁶⁹	42.737 ⁸⁷	79.17 ⁴²	13.817 ⁷²	45.04 ¹⁰⁰	49.436 ⁴⁹	50.27 ²³⁷
28	35.329 ¹²¹	59.71 ⁸⁷	42.824 ¹¹⁶	78.75 ⁵⁹	13.889 ¹⁰⁴	44.04 ⁸²	49.485 ⁹⁴	47.90 ²²⁵
Sept. 7	35.450 ¹⁵²	58.84 ¹⁰⁶	42.940 ¹⁴⁷	78.16 ⁷⁹	13.993 ¹³⁷	43.22 ⁵⁹	49.579 ¹⁴⁰	45.65 ²⁰⁵
17	35.602 ¹⁸⁴	57.78 ¹²⁴	43.087 ¹⁷⁹	77.37 ⁹⁹	14.130 ¹⁷⁰	42.63 ³⁰	49.719 ¹⁸⁸	43.60 ¹⁷⁴
27	35.786 ²¹⁷	56.54 ¹⁴³	43.266 ²¹²	76.38 ¹²¹	14.300 ²⁰⁴	42.33 ²	49.907 ²³⁶	41.86 ¹³⁶
Okt. 7	36.003 ²⁴⁹	55.11 ¹⁶⁰	43.478 ²⁴³	75.17 ¹⁴¹	14.504 ²³⁸	42.35 ³⁷	50.143 ²⁸⁰	40.50 ⁸⁹
17	36.252 ²⁸⁰	53.51 ¹⁷⁴	43.721 ²⁷⁴	73.76 ¹⁵⁹	14.742 ²⁶⁹	42.72 ⁷⁵	50.423 ³²¹	39.61 ³⁸
27	36.532 ³⁰⁸	51.77 ¹⁸⁵	43.995 ³⁰¹	72.17 ¹⁷⁶	15.011 ²⁹⁷	43.47 ¹¹³	50.744 ³⁵⁵	39.23 ¹⁸
Nov. 6	36.840 ³³⁰	49.92 ¹⁹²	44.296 ³²³	70.41 ¹⁸⁸	15.308 ³¹⁸	44.60 ¹⁴⁸	51.099 ³⁸¹	39.41 ⁷⁶
16	37.170 ³⁴⁵	48.00 ¹⁹⁴	44.619 ³³⁹	58.53 ¹⁹⁴	15.626 ³³³	46.08 ¹⁸¹	51.480 ³⁹⁷	40.17 ¹³¹
26	37.515 ³⁵²	46.06 ¹⁹⁰	44.958 ³⁴⁵	66.59 ¹⁹⁶	15.959 ³³⁹	47.89 ²⁰⁸	51.877 ⁴⁰⁰	41.48 ¹⁸⁵
Dez. 6	37.867 ³⁵⁰	44.16 ¹⁷⁹	45.303 ³⁴²	64.63 ¹⁹⁰	16.298 ³³⁴	49.97 ²²⁹	52.277 ³⁹¹	43.33 ²³²
16	38.217 ³³⁶	42.37 ¹⁶³	45.645 ³³⁰	62.73 ¹⁷⁹	16.632 ³²⁰	52.26 ²⁴³	52.668 ³⁷⁰	45.65 ²⁷⁴
26	38.553 ³¹³	40.74 ¹⁴²	45.975 ³⁰⁶	60.94 ¹⁶²	16.952 ²⁹⁵	54.69 ²⁴⁹	53.038 ³³⁶	48.39 ³⁰⁶
36	38.866	39.32	46.281	59.32	17.247	57.18	53.374	51.45
Mittl. Ort	34.425	59.33	41.989	78.23	13.462	44.46	50.103	46.22
sec δ , tg δ	1.046	+0.308	1.023	+0.218	1.022	-0.213	1.341	-0.893
a, a'	+3.3	-17.5	+3.2	-17.6	+2.9	-17.7	+2.5	-17.9
b, b'	-0.02	-0.49	-0.01	-0.48	+0.01	-0.47	+0.05	-0.45

Tag	384) ζ Leonis		383) λ Ursae maj.		386) μ Ursae maj.		387) 30 H. Urs. maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	10 ^h 12 ^m	+23° 45'	10 ^h 12 ^m	+43° 15'	10 ^h 18 ^m	+41° 50'	10 ^h 19 ^m	+65° 54'
Jan. I	52.140 ³¹¹	40.30 ⁹⁹	57.799 ³⁷²	27.59 ⁹	14.687 ³⁶⁹	42.71 ²⁰	13.23 ⁵⁹	47.65 ⁸⁰
II	52.451 ²⁷²	39.31 ⁶⁷	58.171 ³²⁵	27.50 ³⁴	15.056 ³²⁵	42.51 ²³	13.82 ⁵²	48.45 ¹³²
21	52.723 ²²⁶	38.64 ³⁴	58.496 ²⁷⁰	27.84 ⁷⁵	15.381 ²⁷¹	42.74 ⁶³	14.34 ⁴³	49.77 ¹⁷⁷
31	52.949 ¹⁷⁵	38.30 ³	58.766 ²⁰⁸	28.59 ¹¹⁰	15.652 ²¹¹	43.37 ¹⁰⁰	14.77 ³³	51.54 ²¹⁵
Feb. 10	53.124 ¹²²	38.27 ²⁶	58.974 ¹⁴²	29.69 ¹³⁹	15.863 ¹⁴⁷	44.37 ¹³¹	15.10 ²²	53.69 ²⁴³
20	53.246 ⁶⁸	38.53 ⁵¹	59.116 ⁷⁶	31.08 ¹⁶²	16.010 ⁸³	45.68 ¹⁵⁴	15.32 ¹⁰	56.12 ²⁶¹
März I	53.314 ²⁰	39.04 ⁷¹	59.192 ¹⁴	32.70 ¹⁷⁵	16.093 ²²	47.22 ¹⁶⁸	15.44 ⁰	58.73 ²⁶⁶
11	53.334 ²⁵	39.75 ⁸⁵	59.206 ⁴²	34.45 ¹⁷⁹	16.115 ³⁴	48.90 ¹⁷⁵	15.42 ¹¹	61.39 ²⁵⁹
21	53.309 ⁶²	40.60 ⁹³	59.164 ⁹⁰	36.24 ¹⁷⁵	16.081 ⁸²	50.65 ¹⁷³	15.31 ¹⁹	63.98 ²⁴⁴
31	53.247 ⁹¹	41.53 ⁹⁵	59.074 ¹³⁰	37.99 ¹⁶³	15.999 ¹²⁰	52.38 ¹⁶²	15.12 ²⁷	66.42 ²¹⁷
Apr. 10	53.156 ¹¹²	42.48 ⁹³	58.944 ¹⁵⁸	39.62 ¹⁴⁴	15.879 ¹⁴⁸	54.00 ¹⁴⁵	14.85 ³³	68.59 ¹⁸²
20	53.044 ¹²⁴	43.41 ⁸⁶	58.786 ¹⁷⁵	41.06 ¹²¹	15.731 ¹⁶⁷	55.45 ¹²³	14.52 ³⁷	70.41 ¹⁴¹
30	52.920 ¹²⁹	44.27 ⁷⁵	58.611 ¹⁸³	42.27 ⁹¹	15.564 ¹⁷⁵	56.68 ⁹⁵	14.15 ³⁹	71.82 ⁹⁶
Mai 10	52.791 ¹²⁷	45.02 ⁶²	58.428 ¹⁸¹	43.18 ⁶⁰	15.389 ¹⁷⁵	57.63 ⁶⁵	13.76 ³⁹	72.78 ⁴⁷
20	52.664 ¹¹⁹	45.64 ⁴⁷	58.247 ¹⁷³	43.78 ²⁷	15.214 ¹⁶⁷	58.28 ³³	13.37 ³⁹	73.25 ³
30	52.545 ¹⁰⁶	46.11 ³¹	58.074 ¹⁵⁶	44.05 ⁷	15.047 ¹⁵²	58.61 ¹	12.98 ³⁶	73.22 ⁵²
Juni 9	52.439 ⁹⁰	46.42 ¹³	57.918 ¹³⁵	43.98 ⁴¹	14.895 ¹³²	58.62 ³²	12.62 ³³	72.70 ¹⁰⁰
19	52.349 ⁷⁰	46.55 ⁵	57.783 ¹⁰⁹	43.57 ⁷³	14.763 ¹⁰⁹	58.30 ⁶⁴	12.29 ²⁸	71.70 ¹⁴⁴
29	52.279 ⁴⁸	46.50 ²²	57.674 ⁸¹	42.84 ¹⁰³	14.654 ⁸¹	57.66 ⁹⁵	12.01 ²³	70.26 ¹⁸⁶
Juli 9	52.231 ²⁵	46.28 ⁴⁰	57.593 ⁴⁸	41.81 ¹³¹	14.573 ⁵²	56.71 ¹²²	11.78 ¹⁷	68.40 ²²²
19	52.206 ⁰	45.88 ⁵⁸	57.545 ¹⁵	40.50 ¹⁵⁷	14.521 ¹⁹	55.49 ¹⁴⁹	11.61 ¹⁰	66.18 ²⁵⁵
29	52.206 ²⁷	45.30 ⁷⁵	57.530 ²⁰	38.93 ¹⁸¹	14.502 ¹⁴	54.00 ¹⁷³	11.51 ⁴	63.63 ²⁸¹
Aug. 8	52.233 ⁵⁵	44.55 ⁹³	57.550 ⁵⁶	37.12 ²⁰²	14.516 ⁵⁰	52.27 ¹⁹³	11.47 ³	60.82 ³⁰²
18	52.288 ⁸⁴	43.62 ¹¹¹	57.606 ⁹⁵	35.10 ²¹⁸	14.566 ⁸⁷	50.34 ²¹²	11.50 ¹¹	57.80 ³¹⁹
28	52.372 ¹¹⁵	42.51 ¹²⁸	57.701 ¹³⁴	32.92 ²³³	14.653 ¹²⁵	48.22 ²²⁷	11.61 ¹⁸	54.61 ³²⁷
Sept. 7	52.487 ¹⁴⁸	41.23 ¹⁴⁵	57.835 ¹⁷⁵	30.59 ²⁴⁴	14.778 ¹⁶⁵	45.95 ²⁴⁰	11.79 ²⁵	51.34 ³³¹
17	52.635 ¹⁸²	39.78 ¹⁶²	58.010 ²¹⁶	28.15 ²⁵¹	14.943 ²⁰⁵	43.55 ²⁴⁸	12.04 ³²	48.03 ³²⁸
27	52.817 ²¹⁶	38.16 ¹⁷⁶	58.226 ²⁵⁸	25.64 ²⁵⁴	15.148 ²⁴⁷	41.07 ²⁵²	12.36 ⁴⁰	44.75 ³¹⁸
Okt. 7	53.033 ²⁵¹	36.40 ¹⁸⁸	58.484 ²⁹⁹	23.10 ²⁵³	15.395 ²⁸⁸	38.55 ²⁵²	12.76 ⁴⁷	41.57 ³⁰³
17	53.284 ²⁸³	34.52 ¹⁹⁸	58.783 ³³⁸	20.57 ²⁴⁵	15.683 ³²⁷	36.03 ²⁴⁷	13.23 ⁵⁴	38.54 ²⁷⁹
27	53.567 ³¹³	32.54 ²⁰⁴	59.121 ³⁷³	18.12 ²³²	16.010 ³⁶²	33.56 ²³⁶	13.77 ⁵⁹	35.75 ²⁴⁹
Nov. 6	53.880 ³³⁸	30.50 ²⁰⁴	59.494 ⁴⁰²	15.80 ²¹⁴	16.372 ³⁹²	31.20 ²¹⁸	14.36 ⁶⁴	33.26 ²¹¹
16	54.218 ³⁵⁵	28.46 ¹⁹⁸	59.896 ⁴²³	13.66 ¹⁸⁸	16.764 ⁴¹⁴	29.02 ¹⁹⁵	15.00 ⁶⁷	31.15 ¹⁶⁹
26	54.573 ³⁶⁵	26.48 ¹⁸⁷	60.319 ⁴³⁴	11.78 ¹⁵⁸	17.178 ⁴²⁷	27.07 ¹⁶⁶	15.67 ⁶⁹	29.46 ¹¹⁹
Dez. 6	54.938 ³⁶⁴	24.61 ¹⁷⁰	60.753 ⁴³³	10.20 ¹²¹	17.605 ⁴²⁷	25.41 ¹³⁰	16.36 ⁶⁹	28.27 ⁶⁷
16	55.302 ³⁵²	22.91 ¹⁴⁷	61.186 ⁴²⁰	8.99 ⁸¹	18.032 ⁴¹⁴	24.11 ⁹¹	17.05 ⁶⁷	27.60 ¹¹
26	55.654 ³³⁰	21.44 ¹²⁰	61.606 ³⁹³	8.18 ³⁸	18.446 ³⁹⁰	23.20 ⁴⁸	17.72 ⁶³	27.49 ⁴⁵
36	55.984	20.24	61.999	7.80	18.836	22.72	18.35	27.94
Mittl. Ort	51.408	42.74	56.634	34.46	13.593	49.62	10.71	58.31
sec δ, tg δ	1.093	+0.440	1.373	+0.941	1.342	+0.896	2.451	+2.237
a, a'	+3.3	-17.9	+3.6	-17.9	+3.6	-18.1	+4.3	-18.1
b, b'	-0.03	-0.45	-0.06	-0.45	-0.05	-0.43	-0.13	-0.43

Tag	389) μ Hydrae		391) J Carinae		390) β Leonis min.		392) Lac. α Antliae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	10 ^b 22 ^m	—16° 28'	10 ^b 22 ^m	—73° 40'	10 ^b 23 ^m	+37° 3'	10 ^b 23 ^m	—30° 42'
Jan. I	45.499 ²⁸⁷	51.99 ²⁶⁰	62.56 ⁶²	26.75 ³¹³	54.958 ³⁵⁴	34.87 ⁴⁷	59.806 ³⁰⁰	44.69 ²⁹⁵
II	45.786 ²⁵⁰	54.59 ²⁶⁰	63.18 ⁵¹	29.88 ³⁴⁹	55.312 ³¹²	34.40 ⁶	60.106 ²⁵⁸	47.64 ³⁰⁶
21	46.036 ²⁰⁶	57.19 ²⁵¹	63.69 ³⁸	33.37 ³⁷⁵	55.624 ²⁶³	34.34 ³⁴	60.364 ²¹¹	50.70 ³⁰⁸
31	46.242 ¹⁵⁹	59.70 ²³⁸	64.07 ²⁵	37.12 ³⁹²	55.887 ²⁰⁷	34.68 ⁷¹	60.575 ¹⁶⁰	53.78 ³⁰²
Feb. 10	46.401 ¹¹⁰	62.08 ²¹⁸	64.32 ¹¹	41.04 ³⁹⁷	56.094 ¹⁴⁷	35.39 ¹⁰²	60.735 ¹⁰⁷	56.80 ²⁸⁸
20	46.511 ⁶²	64.26 ¹⁹⁵	64.43 ³	45.01 ³⁹³	56.241 ⁸⁷	36.41 ¹²⁷	60.842 ⁵⁶	59.68 ²⁷⁰
März I	46.573 ¹⁷	66.21 ¹⁷⁰	64.40 ¹⁶	48.94 ³⁸¹	56.328 ³⁰	37.68 ¹⁴⁴	60.898 ⁸	62.38 ²⁴⁵
II	46.590 ²²	67.91 ¹⁴³	64.24 ²⁷	52.75 ³⁶⁰	56.358 ²²	39.12 ¹⁵³	60.906 ³⁵	64.83 ²¹⁸
21	46.568 ⁵⁶	69.34 ¹¹⁵	63.97 ³⁸	56.35 ³³²	56.336 ⁶⁷	40.65 ¹⁵⁶	60.871 ⁷²	67.01 ¹⁸⁷
31	46.512 ⁸²	70.49 ⁸⁸	63.59 ⁴⁷	59.67 ²⁹⁸	56.269 ¹⁰³	42.21 ¹⁴⁹	60.799 ¹⁰⁰	68.88 ¹⁵³
Apr. 10	46.430 ¹⁰²	71.37 ⁶¹	63.12 ⁵⁴	62.65 ²⁵⁷	56.166 ¹³⁰	43.70 ¹³⁷	60.699 ¹²³	70.41 ¹²⁰
20	46.328 ¹¹⁴	71.98 ³³	62.58 ⁶⁰	65.22 ²¹²	56.036 ¹⁴⁷	45.07 ¹¹⁹	60.576 ¹³⁸	71.61 ⁸⁴
30	46.214 ¹²¹	72.31 ⁸	61.98 ⁶⁵	67.34 ¹⁶³	55.889 ¹⁵⁶	46.26 ⁹⁶	60.438 ¹⁴⁶	72.45 ⁴⁸
Mai 10	46.093 ¹²¹	72.39 ¹⁷	61.33 ⁶⁸	68.97 ¹¹¹	55.733 ¹⁵⁷	47.22 ⁷¹	60.292 ¹⁴⁹	72.93 ¹²
20	45.972 ¹¹⁸	72.22 ⁴¹	60.65 ⁶⁹	70.08 ⁵⁸	55.576 ¹⁵⁰	47.93 ⁴²	60.143 ¹⁴⁶	73.05 ²³
30	45.854 ¹⁰⁹	71.81 ⁶³	59.96 ⁶⁸	70.66 ³	55.426 ¹³⁸	48.35 ¹⁴	59.997 ¹³⁹	72.82 ⁵⁶
Juni 9	45.745 ⁹⁸	71.18 ⁸³	59.28 ⁶⁶	70.69 ⁵¹	55.288 ¹²⁰	48.49 ¹⁶	59.858 ¹²⁸	72.26 ⁸⁹
19	45.647 ⁸⁴	70.35 ¹⁰⁰	58.62 ⁶²	70.18 ¹⁰⁴	55.168 ¹⁰⁰	48.33 ⁴⁵	59.730 ¹¹³	71.37 ¹¹⁸
29	45.563 ⁶⁶	69.35 ¹¹⁵	58.00 ⁵⁶	69.14 ¹⁵²	55.068 ⁷⁵	47.88 ⁷²	59.617 ⁹⁴	70.19 ¹⁴⁴
Juli 9	45.497 ⁴⁷	68.20 ¹²⁶	57.44 ⁵⁰	67.62 ¹⁹⁷	54.993 ⁴⁸	47.16 ⁹⁹	59.523 ⁷³	68.75 ¹⁶⁵
19	45.450 ²⁵	66.94 ¹³³	56.94 ⁴⁰	65.65 ²³⁵	54.945 ²⁰	46.17 ¹²⁴	59.450 ⁴⁸	67.10 ¹⁸²
29	45.425 ⁰	65.61 ¹³⁴	56.54 ³⁰	63.30 ²⁶⁶	54.925 ¹⁰	44.93 ¹⁴⁸	59.402 ²⁰	65.28 ¹⁹²
Aug. 8	45.425 ²⁶	64.27 ¹³¹	56.24 ¹⁹	60.64 ²⁸⁸	54.935 ⁴³	43.45 ¹⁶⁸	59.382 ¹⁰	63.36 ¹⁹⁴
18	45.451 ⁵⁶	62.96 ¹²¹	56.05 ⁷	57.76 ³⁰¹	54.978 ⁷⁷	41.77 ¹⁸⁷	59.392 ⁴⁵	61.42 ¹⁹⁰
28	45.507 ⁸⁷	61.75 ¹⁰⁵	55.98 ⁷	54.75 ³⁰²	55.055 ¹¹²	39.90 ²⁰⁵	59.437 ⁸³	59.52 ¹⁷⁸
Sept. 7	45.594 ¹²²	60.70 ⁸³	56.05 ²¹	51.73 ²⁹¹	55.167 ¹⁵⁰	37.85 ²¹⁹	59.520 ¹²¹	57.74 ¹⁵⁷
17	45.716 ¹⁵⁷	59.87 ⁵⁵	56.26 ³⁴	48.82 ²⁷⁰	55.317 ¹⁸⁸	35.66 ²³⁰	59.641 ¹⁶³	56.17 ¹²⁸
27	45.873 ¹⁹³	59.32 ²³	56.60 ⁴⁸	46.12 ²³⁸	55.505 ²²⁷	33.36 ²³⁸	59.804 ²⁰⁴	54.89 ⁹³
Okt. 7	46.066 ²²⁹	59.09 ¹⁴	57.08 ⁵⁹	43.74 ¹⁹⁴	55.732 ²⁶⁷	30.98 ²⁴¹	60.008 ²⁴⁴	53.96 ⁵¹
17	46.295 ²⁶³	59.23 ⁵⁴	57.67 ⁷⁰	41.80 ¹⁴¹	55.999 ³⁰⁵	28.57 ²⁴¹	60.252 ²⁸³	53.45 ⁴
27	46.558 ²⁹⁴	59.77 ⁹⁴	58.37 ⁷⁸	40.39 ⁸³	56.304 ³³⁹	26.16 ²³⁵	60.535 ³¹⁶	53.41 ⁴⁵
Nov. 6	46.852 ³¹⁸	60.71 ¹³⁴	59.15 ⁸³	39.56 ¹⁹	56.643 ³⁶⁹	23.81 ²²²	60.851 ³⁴²	53.86 ⁹⁵
16	47.170 ³³⁵	62.05 ¹⁷⁰	59.98 ⁸⁷	39.37 ⁴⁸	57.012 ³⁹¹	21.59 ²⁰⁴	61.193 ³⁵⁹	54.81 ¹⁴⁴
26	47.505 ³⁴⁴	63.75 ²⁰²	60.85 ⁸⁷	39.85 ¹¹⁴	57.403 ⁴⁰³	19.55 ¹⁷⁹	61.552 ³⁶⁷	56.25 ¹⁸⁹
Dez. 6	47.849 ³⁴²	65.77 ²²⁹	61.72 ⁸⁴	40.99 ¹⁷⁸	57.806 ⁴⁰⁵	17.76 ¹⁴⁸	61.919 ³⁶³	58.14 ²²⁹
16	48.191 ³²⁹	68.06 ²⁴⁸	62.56 ⁷⁸	42.77 ²³⁶	58.211 ³⁹⁵	16.28 ¹¹³	62.282 ³⁴⁹	60.43 ²⁶¹
26	48.520 ³⁰⁷	70.54 ²⁵⁹	63.34 ⁶⁹	45.13 ²⁸⁶	58.606 ³⁷³	15.15 ⁷⁴	62.631 ³²²	63.04 ²⁸⁶
36	48.827	73.13	64.03	47.99	58.979	14.41	62.953	65.90
Mittl. Ort	45.169	60.73	61.71	47.98	54.021	41.10	59.523	57.44
sec δ , tg δ	1.043	—0.296	3.559	—3.415	1.253	+0.755	1.163	—0.594
a , a'	+2.9	—18.3	+1.2	—18.3	+3.5	—18.3	+2.7	—18.3
b , b'	+0.02	—0.41	+0.21	—0.41	—0.05	—0.41	+0.04	—0.41

Tag	393) α Carinae		394) β Ursae maj.		395) γ H. Draconis		404) β Sextantis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	10 ^h 25 ^m	—58° 22'	10 ^h 26 ^m	+56° 19'	10 ^h 29 ^m	+76° 3'	10 ^h 37 ^m	—1° 22'
Jan. I	20.848 ⁴⁰⁰	53.23 ³²¹	15.136 ⁴⁷⁰	56.25 ³⁴	21.31 ⁹⁵	57.31 ¹⁰⁴	53.948 ²⁹⁷	38.43 ²¹²
II	21.248 ³³⁵	56.44 ³⁵¹	15.606 ⁴¹⁶	56.59 ⁸⁴	22.26 ⁸⁴	58.35 ¹⁵⁸	54.245 ²⁶³	40.55 ¹⁹⁹
21	21.583 ²⁶³	59.95 ³⁷⁰	16.022 ³⁴⁹	57.43 ¹³⁰	23.10 ⁷⁰	59.93 ²⁰⁶	54.508 ²²³	42.54 ¹⁸¹
31	21.846 ¹⁸⁵	63.65 ³⁸⁰	16.371 ²⁷²	58.73 ¹⁶⁹	23.80 ⁵³	61.99 ²⁴⁴	54.731 ¹⁷⁹	44.35 ¹⁵⁹
Feb. 10	22.031 ¹⁰⁶	67.45 ³⁷⁹	16.643 ¹⁹⁰	60.42 ²⁰¹	24.33 ³⁵	64.43 ²⁷²	54.910 ¹³¹	45.94 ¹³⁴
20	22.137 ³¹	71.24 ³⁷⁰	16.833 ¹⁰⁶	62.43 ²²²	24.68 ¹⁷	67.15 ²⁹⁰	55.041 ⁸⁴	47.28 ¹⁰⁸
März 1*)	22.168 ⁴²	74.94 ³⁵³	16.939 ²⁴	64.65 ²³⁴	24.85 ¹	70.05 ²⁹³	55.125 ⁴⁰	48.36 ⁸³
11	22.126 ¹⁰⁷	78.47 ³²⁸	16.963 ⁵²	66.99 ²³⁴	24.84 ¹⁹	72.98 ²⁸⁵	55.165 ⁰	49.19 ⁵⁹
21	22.019 ¹⁶⁴	81.75 ²⁹⁷	16.911 ¹¹⁸	69.33 ²²⁴	24.65 ³⁴	75.83 ²⁶⁵	55.165 ³⁴	49.78 ³⁶
31	21.855 ²¹³	84.72 ²⁶¹	16.793 ¹⁷³	71.57 ²⁰⁵	24.31 ⁴⁷	78.48 ²³⁵	55.131 ⁶²	50.14 ¹⁶
Apr. 10	21.642 ²⁵¹	87.33 ²²⁰	16.620 ²¹⁶	73.62 ¹⁷⁹	23.84 ⁵⁹	80.83 ¹⁹⁶	55.069 ⁸²	50.30 ¹
20	21.391 ²⁸¹	89.53 ¹⁷⁵	16.404 ²⁴⁶	75.41 ¹⁴⁵	23.25 ⁶⁶	82.79 ¹⁵¹	54.987 ⁹⁶	50.29 ¹⁷
30	21.110 ³⁰¹	91.28 ¹²⁸	16.158 ²⁶¹	76.86 ¹⁰⁶	22.59 ⁷¹	84.30 ⁹⁹	54.891 ¹⁰⁴	50.12 ²⁹
Mai 10	20.809 ³¹³	92.56 ⁷⁹	15.897 ²⁶⁶	77.92 ⁶⁵	21.88 ⁷⁴	85.29 ⁴⁶	54.787 ¹⁰⁶	49.83 ⁴¹
20	20.496 ³¹⁵	93.35 ²⁸	15.631 ²⁵⁹	78.57 ²¹	21.14 ⁷³	85.75 ¹⁰	54.681 ¹⁰⁴	49.42 ⁵⁰
30	20.181 ³⁰⁹	93.63 ²²	15.372 ²⁴³	78.78 ²²	20.41 ⁷⁰	85.65 ⁶³	54.577 ⁹⁸	48.92 ⁵⁸
Juni 9	19.872 ²⁹⁶	93.41 ⁷¹	15.129 ²¹⁹	78.56 ⁶⁶	19.71 ⁶⁵	85.02 ¹¹⁶	54.479 ⁸⁷	48.34 ⁶³
19	19.576 ²⁷⁵	92.70 ¹¹⁸	14.910 ¹⁸⁸	77.90 ¹⁰⁷	19.06 ⁵⁸	83.86 ¹⁶⁵	54.392 ⁷⁵	47.71 ⁶⁷
29	19.301 ²⁴⁶	91.52 ¹⁶²	14.722 ¹⁵¹	76.83 ¹⁴⁶	18.48 ⁵⁰	82.21 ²¹⁰	54.317 ⁶⁰	47.04 ⁶⁹
Juli 9	19.055 ²¹⁰	89.90 ²⁰⁰	14.571 ¹¹¹	75.37 ¹⁸¹	17.98 ³⁹	80.11 ²⁴⁹	54.257 ⁴³	46.35 ⁶⁸
19	18.845 ¹⁶⁶	87.90 ²³³	14.460 ⁶⁶	73.56 ²¹²	17.59 ²⁸	77.62 ²⁸⁴	54.214 ²⁴	45.67 ⁶⁴
29	18.679 ¹¹⁵	85.57 ²⁵⁸	14.394 ²⁰	71.44 ²⁴⁰	17.31 ¹⁷	74.78 ³¹³	54.190 ²	45.03 ⁵⁸
Aug. 8	18.564 ⁵⁸	82.99 ²⁷³	14.374 ²⁹	69.04 ²⁶³	17.14 ⁴	71.65 ³³⁴	54.188 ²²	44.45 ⁴⁸
18	18.506 ⁴	80.26 ²⁸¹	14.403 ⁸¹	66.41 ²⁸²	17.10 ⁸	68.31 ³⁴⁹	54.210 ⁴⁹	43.97 ³⁴
28	18.510 ⁷²	77.45 ²⁷⁷	14.484 ¹³³	63.59 ²⁹⁴	17.18 ²¹	64.82 ³⁵⁸	54.259 ⁷⁷	43.63 ¹⁷
Sept. 7	18.582 ¹⁴²	74.68 ²⁶²	14.617 ¹⁸⁸	60.65 ³⁰³	17.39 ³⁴	61.24 ³⁵⁹	54.336 ¹⁰⁹	43.46 ⁴
17	18.724 ²¹⁴	72.06 ²³⁷	14.805 ²⁴²	57.62 ³⁰⁶	17.73 ⁴⁷	57.65 ³⁵⁴	54.445 ¹⁴²	43.50 ²⁹
27	18.938 ²⁸⁴	69.69 ²⁰²	15.047 ²⁹⁷	54.56 ³⁰³	18.20 ⁵⁹	54.11 ³⁴⁰	54.587 ¹⁷⁷	43.79 ⁵⁶
Okt. 7	19.222 ³⁵⁰	67.67 ¹⁵⁶	15.344 ³⁵²	51.53 ²⁹⁴	18.79 ⁷¹	50.71 ³²⁰	54.764 ²¹³	44.35 ⁸⁵
17	19.572 ⁴⁰⁹	66.11 ¹⁰⁴	15.696 ⁴⁰²	48.59 ²⁷⁸	19.50 ⁸¹	47.51 ²⁹²	54.977 ²⁴⁷	45.20 ¹¹⁴
27	19.981 ⁴⁵⁸	65.07 ⁴⁶	16.098 ⁴⁴⁹	45.81 ²⁵⁶	20.31 ⁹²	44.59 ²⁵⁷	55.224 ²⁷⁸	46.34 ¹⁴³
Nov. 6	20.439 ⁴⁹⁴	64.61 ¹⁸	16.547 ⁴⁸⁸	43.25 ²²⁷	21.23 ⁹⁹	42.02 ²¹⁵	55.502 ³⁰⁵	47.77 ¹⁶⁹
16	20.933 ⁵¹⁶	64.79 ⁸¹	17.035 ⁵¹⁷	40.98 ¹⁹¹	22.22 ¹⁰⁵	39.87 ¹⁶⁶	55.807 ³²⁵	49.46 ¹⁹¹
26	21.449 ⁵²²	65.60 ¹⁴³	17.552 ⁵³⁵	39.07 ¹⁴⁹	23.27 ¹⁰⁹	38.21 ¹¹²	56.132 ³³⁷	51.37 ²⁰⁷
Dez. 6	21.971 ⁵⁰⁹	67.03 ²⁰²	18.087 ⁵³⁷	37.58 ¹⁰²	24.36 ¹⁰⁹	37.09 ⁵³	56.469 ³⁴⁰	53.44 ²¹⁸
16	22.480 ⁴⁸¹	69.05 ²⁵⁵	18.624 ⁵²⁴	36.56 ⁵¹	25.45 ¹⁰⁶	36.56 ⁶	56.809 ³³²	55.62 ²²²
26	22.961 ⁴³⁷	71.60 ²⁹⁹	19.148 ⁴⁹⁵	36.05 ⁰	26.51 ¹⁰⁰	36.62 ⁶⁶	57.141 ³¹³	57.84 ²¹⁹
36	23.398	74.59	19.643	36.05	27.51	37.28	57.454	60.03
Mittl. Ort	20.478	72.29	13.481	66.23	16.87	69.48	53.609	42.25
sec δ , tg δ	1.908	—1.625	1.804	+1.501	4.154	+4.032	1.000	—0.024
a, a'	+2.2	—18.4	+3.9	—18.4	+5.2	—18.5	+3.1	—18.8
b, b'	+0.10	—0.40	—0.09	—0.40	—0.25	—0.39	0.00	—0.35

*) Bei Stern 404) lies März 2

Tag	406) ♀ Argus		407) 42 Leonis min.		408) μ Argus		409) ι Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	10 ^h 40 ^m	—64° 1'	10 ^h 42 ^m	+31° 2'	10 ^h 43 ^m	—49° 3'	10 ^h 45 ^m	+10° 54'
Jan. 1	29.70 ⁴⁸	37.09 ³⁰⁶	2.735 ³⁴⁵	40.74 ⁸⁸	47.852 ³⁶⁹	1.92 ³⁰⁷	38.351 ³¹⁰	38.33 ¹⁷⁰
11	30.18 ⁴¹	40.15 ³⁴²	3.080 ³¹⁰	39.86 ⁴⁹	48.221 ³¹⁹	4.99 ³³²	38.661 ²⁷⁸	36.63 ¹⁴⁷
21	30.59 ³³	43.57 ³⁶⁷	3.390 ²⁶⁶	39.37 ⁹	48.540 ²⁶³	8.31 ³⁵⁰	38.939 ²³⁹	35.16 ¹¹⁹
31	30.92 ²³	47.24 ³⁸²	3.656 ²¹⁴	39.28 ²⁸	48.803 ²⁰²	11.81 ³⁵⁸	39.178 ¹⁹³	33.97 ⁹⁰
Feb. 10	31.15 ¹⁵	51.06 ³⁸⁷	3.870 ¹⁶⁰	39.56 ⁶¹	49.005 ¹³⁷	15.39 ³⁵⁶	39.371 ¹⁴⁵	33.07 ⁶¹
20	31.30 ⁶	54.93 ³⁸⁴	4.030 ¹⁰⁴	40.17 ⁹⁰	49.142 ⁷⁴	18.95 ³⁴⁶	39.516 ⁹⁸	32.46 ³³
März 2	31.36 ³	58.77 ³⁷¹	4.134 ⁵¹	41.07 ¹¹²	49.216 ¹⁵	22.41 ³²⁹	39.614 ⁵¹	32.13 ⁸
11	31.33 ¹¹	62.48 ³⁵¹	4.185 ³	42.19 ¹²⁷	49.231 ⁴⁰	25.70 ³⁰⁵	39.665 ⁹	32.05 ¹⁵
21	31.22 ¹⁷	65.99 ³²³	4.188 ⁴¹	43.46 ¹³⁵	49.191 ⁸⁸	28.75 ²⁷⁷	39.674 ²⁶	32.20 ³²
31	31.05 ²⁴	69.22 ²⁹⁰	4.147 ⁷⁶	44.81 ¹³⁵	49.103 ¹²⁹	31.52 ²⁴³	39.648 ⁵⁶	32.52 ⁴⁵
Apr. 10	30.81 ²⁹	72.12 ²⁵¹	4.071 ¹⁰³	46.16 ¹³⁰	48.974 ¹⁶¹	33.95 ²⁰⁵	39.592 ⁷⁹	32.97 ⁵⁵
20	30.52 ³²	74.63 ²⁰⁸	3.968 ¹²²	47.46 ¹¹⁸	48.813 ¹⁸⁸	36.00 ¹⁶⁴	39.513 ⁹⁴	33.52 ⁶¹
30	30.20 ³⁶	76.71 ¹⁶⁰	3.846 ¹³²	48.64 ¹⁰¹	48.625 ²⁰⁵	37.64 ¹²¹	39.419 ¹⁰³	34.13 ⁶³
Mai 10	29.84 ³⁸	78.31 ¹¹¹	3.714 ¹³⁶	49.65 ⁸²	48.420 ²¹⁷	38.85 ⁷⁶	39.316 ¹⁰⁶	34.76 ⁶²
20	29.46 ³⁹	79.42 ⁶⁰	3.578 ¹³³	50.47 ⁶⁰	48.203 ²²¹	39.61 ³⁰	39.210 ¹⁰⁵	35.38 ⁵⁹
30	29.07 ³⁹	80.02 ⁸	3.445 ¹²⁵	51.07 ³⁵	47.982 ²¹⁹	39.91 ¹⁶	39.105 ⁹⁹	35.97 ⁵⁴
Juni 9	28.68 ³⁸	80.10 ⁴⁴	3.320 ¹¹³	51.42 ¹⁰	47.763 ²¹²	39.75 ⁶⁰	39.006 ⁸⁹	36.51 ⁴⁸
19	28.30 ³⁶	79.66 ⁹⁵	3.207 ⁹⁷	51.52 ¹⁵	47.551 ¹⁹⁹	39.15 ¹⁰³	38.917 ⁷⁷	36.99 ⁴⁰
29	27.94 ³⁴	78.71 ¹⁴¹	3.110 ⁷⁷	51.37 ⁴¹	47.352 ¹⁸¹	38.12 ¹⁴³	38.840 ⁶²	37.39 ³¹
Juli 9	27.60 ²⁹	77.30 ¹⁸⁵	3.033 ⁵⁶	50.96 ⁶⁵	47.171 ¹⁵⁵	36.69 ¹⁷⁷	38.778 ⁴⁵	37.70 ²⁰
19	27.31 ²⁴	75.45 ²²²	2.977 ³²	50.31 ⁸⁹	47.016 ¹²⁵	34.92 ²⁰⁸	38.733 ²⁶	37.90 ⁷
29	27.07 ¹⁸	73.23 ²⁵¹	2.945 ⁶	49.42 ¹¹³	46.891 ⁸⁹	32.84 ²³⁰	38.707 ⁵	37.97 ⁶
Aug. 8	26.89 ¹²	70.72 ²⁷⁴	2.939 ²²	48.29 ¹³⁵	46.802 ⁴⁸	30.54 ²⁴⁶	38.702 ²⁰	37.91 ²¹
18	26.77 ⁴	67.98 ²⁸⁵	2.961 ⁵³	46.94 ¹⁵⁵	46.754 ¹	28.08 ²⁵²	38.722 ⁴⁵	37.70 ³⁹
28	26.73 ⁴	65.13 ²⁸⁸	3.014 ⁸⁶	45.39 ¹⁷⁵	46.753 ⁵⁰	25.56 ²⁴⁸	38.767 ⁷⁴	37.31 ⁵⁸
Sept. 7	26.77 ¹²	62.25 ²⁷⁹	3.100 ¹²⁰	43.64 ¹⁹²	46.803 ¹⁰⁵	23.08 ²³⁶	38.841 ¹⁰⁵	36.73 ⁷⁸
17	26.89 ²¹	59.46 ²⁵⁸	3.220 ¹⁵⁷	41.72 ²⁰⁸	46.908 ¹⁶²	20.72 ²¹²	38.946 ¹³⁹	35.95 ¹⁰⁰
27	27.10 ³⁰	56.88 ²²⁷	3.377 ¹⁹⁶	39.64 ²²¹	47.070 ²²⁰	18.60 ¹⁸⁰	39.085 ¹⁷⁴	34.95 ¹²³
Okt. 7	27.40 ³⁸	54.61 ¹⁸⁵	3.573 ²³⁵	37.43 ²³¹	47.290 ²⁷⁶	16.80 ¹³⁷	39.259 ²⁰⁹	33.72 ¹⁴⁴
17	27.78 ⁴⁵	52.76 ¹³⁶	3.808 ²⁷³	35.12 ²³⁶	47.566 ³²⁷	15.43 ⁸⁹	39.468 ²⁴⁵	32.28 ¹⁶⁶
27	28.23 ⁵²	51.40 ⁷⁸	4.081 ³⁰⁹	32.76 ²³⁷	47.893 ³⁷³	14.54 ³⁴	39.713 ²⁷⁸	30.62 ¹⁸³
Nov. 6	28.75 ⁵⁷	50.62 ¹⁵	4.390 ³³⁹	30.39 ²³¹	48.266 ⁴⁰⁹	14.20 ²⁵	39.991 ³⁰⁶	28.79 ¹⁹⁹
16	29.32 ⁵⁹	50.47 ⁴⁸	4.729 ³⁶³	28.08 ²²⁰	48.675 ⁴³⁴	14.45 ⁸⁴	40.297 ³²⁸	26.80 ²⁰⁷
26	29.91 ⁶¹	50.95 ¹¹³	5.092 ³⁸⁰	25.88 ²⁰¹	49.109 ⁴⁴⁵	15.29 ¹⁴²	40.625 ³⁴³	24.73 ²¹²
Dez. 6	30.52 ⁵⁹	52.08 ¹⁷⁵	5.472 ³⁸⁵	23.87 ¹⁷⁷	49.554 ⁴⁴³	16.71 ¹⁹⁶	40.968 ³⁴⁷	22.61 ²⁰⁹
16	31.11 ⁵⁷	53.83 ²³¹	5.857 ³⁷⁹	22.10 ¹⁴⁷	49.997 ⁴²⁷	18.67 ²⁴⁵	41.315 ³⁴²	20.52 ¹⁹⁹
26	31.68 ⁵²	56.14 ²⁸¹	6.236 ³⁶²	20.63 ¹¹³	50.424 ³⁹⁵	21.12 ²⁸⁶	41.657 ³²⁵	18.53 ¹⁸⁴
36	32.20	58.95	6.598	19.50	50.819	23.98	41.982	16.69
Mittl. Ort	29.47	57.27	2.020	46.52	47.730	19.24	37.940	38.56
sec δ, tg δ	2.284	—2.053	1.167	+0.602	1.526	—1.153	1.018	+0.193
a, a'	+2.1	—18.8	+3.3	—18.9	+2.6	—18.9	+3.2	—19.0
b, b'	+0.13	—0.34	—0.04	—0.33	+0.07	—0.33	—0.01	—0.32

Tag	415) ϵ Velorum		416) β Ursae maj.		417) α Ursae maj.		418) χ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	10 ^h 56 ^m	−41° 51'	10 ^h 57 ^m	+56° 44'	10 ^h 59 ^m	+62° 6'	11 ^h 1 ^m	+7° 42'
Jan. I	59.078 ³⁵³	4.30 ²⁹³	42.899 ⁴⁹⁸	57.33 ⁰	30.93 ⁵⁷	72.81 ¹⁷	27.849 ³¹⁴	34.08 ¹⁸⁷
II	59.431 ³¹²	7.23 ³¹⁶	43.397 ⁴⁵²	57.33 ⁵⁴	31.50 ⁵²	72.98 ⁷³	28.163 ²⁸⁵	32.21 ¹⁶⁶
21	59.743 ²⁶³	10.39 ³³⁰	43.849 ³⁹²	57.87 ¹⁰⁵	32.02 ⁴⁴	73.71 ¹²⁶	28.448 ²⁴⁷	30.55 ¹⁴⁰
31	60.006 ²¹⁰	13.69 ³³⁵	44.241 ³²²	58.92 ¹⁵⁰	32.46 ³⁷	74.97 ¹⁷²	28.695 ²⁰⁵	29.15 ¹¹³
Feb. 10	60.216 ¹⁵³	17.04 ³³¹	44.563 ²⁴²	60.42 ¹⁸⁹	32.83 ²⁷	76.69 ²¹⁰	28.900 ¹⁵⁸	28.02 ⁸⁴
20	60.369 ⁹⁶	20.35 ³²¹	44.805 ¹⁶⁰	62.31 ²¹⁷	33.10 ¹⁸	78.79 ²³⁸	29.058 ¹¹¹	27.18 ⁵⁵
März 2	60.465 ⁴³	23.56 ³⁰⁴	44.965 ⁷⁸	64.48 ²³⁶	33.28 ⁸	81.17 ²⁵⁵	29.169 ⁶⁶	26.63 ³⁰
11	60.508 ⁷	26.60 ²⁸⁰	45.043 ¹	66.84 ²⁴⁴	33.36 ¹	83.72 ²⁶¹	29.235 ²⁵	26.33 ⁵
21	60.501 ⁵⁰	29.40 ²⁵³	45.042 ⁷²	69.28 ²⁴⁰	33.35 ⁹	86.33 ²⁵⁶	29.260 ¹²	26.28 ¹⁵
31	60.451 ⁸⁷	31.93 ²²⁰	44.970 ¹³³	71.68 ²²⁸	33.26 ¹⁶	88.89 ²⁴⁰	29.248 ⁴²	26.43 ³¹
Apr. 10	60.364 ¹¹⁸	34.13 ¹⁸⁶	44.837 ¹⁸³	73.96 ²⁰⁵	33.10 ²³	91.29 ²¹⁴	29.206 ⁶⁶	26.74 ⁴³
20	60.246 ¹⁴²	35.99 ¹⁴⁹	44.654 ²²¹	76.01 ¹⁷⁵	32.87 ²⁷	93.43 ¹⁸¹	29.140 ⁸⁴	27.17 ⁵²
30	60.104 ¹⁵⁸	37.48 ¹⁰⁹	44.433 ²⁴⁷	77.76 ¹³⁹	32.60 ³¹	95.24 ¹⁴²	29.056 ⁹⁴	27.69 ⁵⁷
Mai 10	59.946 ¹⁷⁰	38.57 ⁶⁸	44.186 ²⁶¹	79.15 ⁹⁹	32.29 ³²	96.66 ⁹⁸	28.962 ¹⁰¹	28.26 ⁶⁰
20	59.776 ¹⁷⁵	39.25 ²⁷	43.925 ²⁶⁴	80.14 ⁵⁵	31.97 ³³	97.64 ⁵¹	28.861 ¹⁰¹	28.86 ⁵⁹
30	59.601 ¹⁷⁵	39.52 ¹⁴	43.661 ²⁵⁷	80.69 ¹¹	31.64 ³²	98.15 ²	28.760 ⁹⁸	29.45 ⁵⁸
Juni 9	59.426 ¹⁷²	39.38 ⁵⁴	43.404 ²⁴²	80.80 ³⁵	31.32 ³⁰	98.17 ⁴⁶	28.662 ⁹¹	30.03 ⁵⁴
19	59.254 ¹⁶²	38.84 ⁹³	43.162 ²¹⁹	80.45 ⁷⁹	31.02 ²⁸	97.71 ⁹³	28.571 ⁸²	30.57 ⁴⁸
29	59.092 ¹⁴⁷	37.91 ¹²⁸	42.943 ¹⁹¹	79.66 ¹²¹	30.74 ²⁵	96.78 ¹³⁸	28.489 ⁷⁰	31.05 ⁴¹
Juli 9	58.945 ¹²⁹	36.63 ¹⁵⁹	42.752 ¹⁵⁶	78.45 ¹⁶²	30.49 ²⁰	95.40 ¹⁷⁹	28.419 ⁵⁵	31.46 ³²
19	58.816 ¹⁰⁶	35.04 ¹⁸⁶	42.596 ¹¹⁸	76.83 ¹⁹⁷	30.29 ¹⁶	93.61 ²¹⁷	28.364 ³⁹	31.78 ²²
29	58.710 ⁷⁶	33.18 ²⁰⁷	42.478 ⁷⁵	74.86 ²²⁹	30.13 ¹⁰	91.44 ²⁵¹	28.325 ¹⁸	32.00 ¹⁰
Aug. 8	58.634 ⁴³	31.11 ²¹⁹	42.403 ²⁹	72.57 ²⁵⁸	30.03 ⁵	88.93 ²⁷⁹	28.307 ³	32.10 ⁵
18	58.591 ⁴	28.92 ²²⁵	42.374 ²⁰	69.99 ²⁸²	29.98 ⁰	86.14 ³⁰³	28.310 ²⁸	32.05 ²¹
28	58.587 ³⁹	26.67 ²²¹	42.394 ⁷³	67.17 ³⁰⁰	29.98 ⁷	83.11 ³²¹	28.338 ⁵⁶	31.84 ⁴⁰
Sept. 7	58.626 ⁸⁶	24.46 ²⁰⁹	42.467 ¹²⁸	64.17 ³¹⁴	30.05 ¹⁴	79.90 ³³³	28.394 ⁸⁷	31.44 ⁶¹
17	58.712 ¹³⁶	22.37 ¹⁸⁶	42.595 ¹⁸⁴	61.03 ³²²	30.19 ²⁰	76.57 ³³⁹	28.481 ¹²¹	30.83 ⁸⁴
27	58.848 ¹⁸⁷	20.51 ¹⁵⁵	42.779 ²⁴³	57.81 ³²³	30.39 ²⁷	73.18 ³³⁸	28.602 ¹⁵⁷	29.99 ¹⁰⁷
Okt. 7	59.035 ²³⁹	18.96 ¹¹⁷	43.022 ³⁰²	54.58 ³¹⁹	30.66 ³³	69.80 ³³¹	28.759 ¹⁹⁴	28.92 ¹³²
17	59.274 ²⁸⁷	17.79 ⁷⁰	43.324 ³⁵⁹	51.39 ³⁰⁸	30.99 ⁴¹	66.49 ³¹⁷	28.953 ²³⁰	27.60 ¹⁵⁴
27	59.561 ³³⁰	17.09 ¹⁹	43.683 ⁴¹²	48.31 ²⁸⁸	31.40 ⁴⁶	63.32 ²⁹⁴	29.183 ²⁶⁵	26.06 ¹⁷⁶
Nov. 6	59.891 ³⁶⁶	16.90 ³⁵	44.095 ⁴⁶⁰	45.43 ²⁶²	31.86 ⁵²	60.38 ²⁶⁴	29.448 ²⁹⁶	24.30 ¹⁹⁴
16	60.257 ³⁹²	17.25 ⁹⁰	44.555 ⁴⁹⁹	42.81 ²²⁹	32.38 ⁵⁶	57.74 ²²⁶	29.744 ³²⁰	22.36 ²⁰⁷
26	60.649 ⁴⁰⁷	18.15 ¹⁴⁴	45.054 ⁵²⁵	40.52 ¹⁸⁸	32.94 ⁶⁰	55.48 ¹⁸²	30.064 ³³⁸	20.29 ²¹⁵
Dez. 6	61.056 ⁴¹⁰	19.59 ¹⁹⁴	45.579 ⁵³⁹	38.64 ¹⁴¹	33.54 ⁶¹	53.66 ¹³²	30.402 ³⁴⁴	18.14 ²¹⁶
16	61.466 ³⁹⁹	21.53 ²³⁸	46.118 ⁵³⁷	37.23 ⁸⁹	34.15 ⁶¹	52.34 ⁷⁶	30.746 ³⁴²	15.98 ²¹¹
26	61.865 ³⁷⁵	23.91 ²⁷⁵	46.655 ⁵¹⁶	36.34 ³⁶	34.76 ⁵⁸	51.58 ²⁰	31.088 ³²⁸	13.87 ¹⁹⁸
36	62.240	26.66	47.171	35.98	35.34	51.38	31.416	11.89
Mittl. Ort	59.063	19.84	41.451	69.44	29.15	85.82	27.552	33.90
sec δ , tg δ	1.343	−0.896	1.824	+1.525	2.139	+1.891	1.009	+0.135
α , α'	+2.7	−19.3	+3.6	−19.3	+3.7	−19.3	+3.1	−19.4
δ , δ'	+0.06	−0.27	−0.10	−0.27	−0.12	−0.26	−0.01	−0.25

Tag	420) ψ Ursae maj.		421) β Crateris		422) δ Leonis		423) θ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	11 ^h 5 ^m	+44° 51'	11 ^h 8 ^m	−22° 26'	11 ^h 10 ^m	+20° 53'	11 ^h 10 ^m	+15° 48'
Jan. I	48.448	72.99	15.741	45.76	26.919	62.91	37.623	22.44
II	48.860 ⁴¹²	72.45 ⁵⁴	16.062 ³²¹	48.40 ²⁶⁴	27.254 ³³⁵	61.45 ¹⁴⁶	37.950 ³²⁷	20.80 ¹⁶⁴
2I	49.236 ³⁷⁶	72.40 ⁵	16.352 ²⁹⁰	51.11 ²⁷¹	27.562 ³⁰⁸	60.31 ¹¹⁴	38.249 ²⁹⁹	19.45 ¹³⁵
3I	49.565 ³²⁹	72.84 ⁴⁴	16.603 ²⁵¹	53.82 ²⁷¹	27.831 ²⁶⁹	59.53 ⁷⁸	38.512 ²⁶³	18.41 ¹⁰⁴
Feb. 10	49.839 ²⁷⁴	73.72 ⁸⁸	16.809 ²⁰⁶	56.46 ²⁶⁴	28.057 ²²⁶	59.11 ⁴²	38.732 ²²⁰	17.71 ⁷⁰
20	50.051 ²¹²	75.00 ¹²⁸	16.968 ¹⁵⁹	58.96 ²⁵⁰	28.235 ¹⁷⁸	59.03 ⁸	38.905 ¹⁷³	17.33 ³⁸
März 2	50.198 ¹⁴⁷	76.60 ¹⁶⁰	17.080 ¹¹²	61.28 ²³²	28.363 ¹²⁸	59.26 ²³	39.030 ¹²⁵	17.26 ⁷
II	50.282 ⁸⁴	78.43 ¹⁸³	17.146 ⁶⁶	63.38 ²¹⁰	28.443 ⁸⁰	59.77 ⁵¹	39.108 ⁷⁸	17.46 ²⁰
2I	50.305 ²³	80.40 ¹⁹⁷	17.170 ²⁴	65.24 ¹⁸⁶	28.478 ³⁵	60.50 ⁷³	39.143 ³⁵	17.89 ⁴³
3I	50.273 ³²	82.42 ²⁰²	17.157 ¹³	66.83 ¹⁵⁹	28.473 ⁵	61.38 ⁸⁸	39.139 ⁴	18.49 ⁶⁰
Apr. 10	50.193 ⁸⁰	84.40 ¹⁹⁸	17.113 ⁴⁴	68.14 ¹³¹	28.434 ³⁹	62.37 ⁹⁹	39.102 ³⁷	19.23 ⁷⁴
20	50.076 ¹¹⁷	86.24 ¹⁸⁴	17.043 ⁷⁰	69.18 ¹⁰⁴	28.367 ⁶⁷	63.40 ¹⁰³	39.040 ⁶²	20.04 ⁸¹
30	49.930 ¹⁴⁶	87.88 ¹⁶⁴	16.954 ⁸⁹	69.93 ⁷⁵	28.280 ⁸⁷	64.42 ¹⁰²	38.958 ⁸²	20.88 ⁸⁴
Mai 10	49.764 ¹⁶⁶	89.26 ¹³⁸	16.852 ¹⁰²	70.39 ⁴⁶	28.180 ¹⁰⁰	65.38 ⁹⁶	38.863 ⁹⁵	21.71 ⁸³
20	49.587 ¹⁷⁷	90.33 ¹⁰⁷	16.740 ¹¹²	70.58 ¹⁹	28.072 ¹⁰⁸	66.24 ⁸⁶	38.761 ¹⁰²	22.48 ⁷⁷
30	49.407 ¹⁸⁰	91.06 ⁷³	16.625 ¹¹⁵	70.50 ⁸	27.962 ¹¹⁰	66.98 ⁷⁴	38.657 ¹⁰⁴	23.18 ⁷⁰
Juni 9	49.231 ¹⁷⁶	91.43 ³⁷	16.510 ¹¹⁵	70.15 ³⁵	27.854 ¹⁰⁸	67.56 ⁵⁸	38.554 ¹⁰³	23.78 ⁶⁰
19	49.065 ¹⁶⁶	91.42 ¹	16.398 ¹¹²	69.55 ⁶⁰	27.752 ¹⁰²	67.98 ⁴²	38.457 ⁹⁷	24.25 ⁴⁷
29	48.913 ¹⁵²	91.03 ³⁹	16.293 ¹⁰⁵	68.73 ⁸²	27.659 ⁹³	68.21 ²³	38.369 ⁸⁸	24.59 ³⁴
Juli 9	48.782 ¹³¹	90.28 ⁷⁵	16.198 ⁹⁵	67.71 ¹⁰²	27.578 ⁸¹	68.25 ⁴	38.292 ⁷⁷	24.79 ²⁰
19	48.674 ¹⁰⁸	89.18 ¹¹⁰	16.116 ⁸²	66.51 ¹²⁰	27.513 ⁶⁵	68.10 ¹⁵	38.230 ⁶²	24.83 ⁴
29	48.592 ⁸²	87.75 ¹⁴³	16.051 ⁶⁵	65.19 ¹³²	27.465 ⁴⁸	67.75 ³⁵	38.184 ⁴⁶	24.70 ¹³
Aug. 8	48.541 ⁵¹	86.01 ¹⁷⁴	16.006 ⁴⁵	63.78 ¹⁴¹	27.437 ²⁸	67.19 ⁵⁶	38.157 ²⁷	24.39 ³¹
18	48.523 ¹⁸	83.99 ²⁰²	15.986 ²⁰	62.34 ¹⁴⁴	27.433 ⁴	66.42 ⁷⁷	38.153 ⁴	23.90 ⁴⁹
28	48.541 ¹⁸	81.72 ²²⁷	15.994 ⁸	60.94 ¹⁴⁰	27.454 ²¹	65.43 ⁹⁹	38.174 ²¹	23.21 ⁶⁹
Sept. 7	48.598 ⁵⁷	79.24 ²⁴⁸	16.033 ³⁹	59.64 ¹³⁰	27.504 ⁵⁰	64.24 ¹¹⁹	38.223 ⁴⁹	22.32 ⁸⁹
17	48.696 ⁹⁸	76.58 ²⁶⁶	16.108 ⁷⁵	58.49 ¹¹⁵	27.586 ⁸²	62.84 ¹⁴⁰	38.303 ⁸⁰	21.21 ¹¹¹
27	48.840 ¹⁴⁴	73.78 ²⁸⁰	16.222 ¹¹⁴	57.58 ⁹¹	27.704 ¹¹⁸	61.23 ¹⁶¹	38.418 ¹¹⁵	19.89 ¹³²
Okt. 7	49.030 ¹⁹⁰	70.90 ²⁸⁸	16.377 ¹⁵⁵	56.96 ⁶²	27.859 ¹⁵⁵	59.42 ¹⁸¹	38.569 ¹⁵¹	18.36 ¹⁵³
17	49.268 ²³⁸	67.98 ²⁹²	16.574 ¹⁹⁷	56.69 ²⁷	28.052 ¹⁹³	57.44 ¹⁹⁸	38.759 ¹⁹⁰	16.62 ¹⁷⁴
27	49.553 ²⁸⁵	65.08 ²⁹⁰	16.811 ²³⁷	56.80 ¹¹	28.285 ²³³	55.31 ²¹³	38.986 ²²⁷	14.71 ¹⁹¹
Nov. 6	49.884 ³³¹	62.27 ²⁸¹	17.086 ²⁷⁵	57.33 ⁵³	28.554 ²⁶⁹	53.07 ²²⁴	39.250 ²⁶⁴	12.64 ²⁰⁷
16	50.254 ³⁷⁰	59.62 ²⁶⁵	17.395 ³⁰⁹	58.29 ⁹⁶	28.857 ³⁰³	50.77 ²³⁰	39.546 ²⁹⁶	10.47 ²¹⁷
26	50.658 ⁴⁰⁴	57.20 ²⁴²	17.729 ³³⁴	59.66 ¹³⁷	29.187 ³³⁰	48.47 ²³⁰	39.870 ³²⁴	8.24 ²²³
Dez. 6	51.086 ⁴²⁸	55.08 ²¹²	18.080 ³⁵¹	61.41 ¹⁷⁵	29.537 ³⁵⁰	46.23 ²²⁴	40.213 ³⁴³	6.02 ²²²
16	51.526 ⁴⁴⁰	53.34 ¹⁷⁴	18.438 ³⁵⁸	63.50 ²⁰⁹	29.897 ³⁶⁰	44.12 ²¹¹	40.565 ³⁵²	3.87 ²¹⁵
26	51.966 ⁴⁴⁰	52.02 ¹³²	18.791 ³⁵³	65.86 ²³⁶	30.258 ³⁶¹	42.21 ¹⁹¹	40.917 ³⁵²	1.87 ²⁰⁰
36	52.393 ⁴²⁷	51.17 ⁸⁵	19.128 ³³⁷	68.42 ²⁹⁶	30.606 ³⁴⁸	40.55 ¹⁶⁶	41.257 ³⁴⁰	0.07 ¹⁸⁰
Mittl. Ort	47.542	83.36	15.715	55.55	26.517	67.22	37.287	25.19
sec δ , $\lg \delta$	1.411	+0.996	1.082	−0.413	1.070	+0.382	1.039	+0.283
a, a'	+3.4	−19.5	+2.9	−19.5	+3.2	−19.6	+3.2	−19.6
b, b'	−0.06	−0.23	+0.03	−0.22	−0.02	−0.21	−0.02	−0.21

Tag	425) ν Ursae maj.		426) δ Crateris		427) σ Leonis		428) π Centauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	11 ^h 14 ^m	+33° 27'	11 ^h 15 ^m	—14° 24'	11 ^h 17 ^m	+6° 24'	11 ^h 17 ^m	—54° 6'
Jan. 1	46.016 ³⁶⁸	67.57 ¹⁰⁴	53.381 ³¹⁹	10.73 ²⁴⁶	34.968 ³²¹	27.92 ¹⁹⁶	50.965 ⁴³⁴	27.36 ²⁷⁷
11	46.384 ³³⁸	66.53 ⁶¹	53.700 ²⁸⁹	13.19 ²⁴⁶	35.289 ²⁹³	25.96 ¹⁷⁵	51.399 ³⁸⁸	30.13 ³¹²
21	46.722 ²⁹⁸	65.92 ¹⁸	53.989 ²⁵³	15.65 ²⁴⁰	35.582 ²⁵⁹	24.21 ¹⁵¹	51.787 ³³¹	33.25 ³³⁸
31	47.020 ²⁵¹	65.74 ²⁴	54.242 ²¹²	18.05 ²²⁷	35.841 ²¹⁸	22.70 ¹²⁴	52.120 ²⁷⁰	36.63 ³⁵⁴
Feb. 10	47.271 ¹⁹⁸	65.98 ⁶³	54.454 ¹⁶⁶	20.32 ²⁰⁹	36.059 ¹⁷³	21.46 ⁹⁴	52.390 ²⁰³	40.17 ³⁶²
20	47.469 ¹⁴⁴	66.61 ⁹⁶	54.620 ¹²¹	22.41 ¹⁸⁸	36.232 ¹²⁸	20.52 ⁶⁶	52.593 ¹³⁷	43.79 ³⁶⁰
März 2	47.613 ⁸⁹	67.57 ¹²³	54.741 ⁷⁶	24.29 ¹⁶⁴	36.360 ⁸³	19.86 ³⁸	52.730 ⁷²	47.39 ³⁵⁰
12	47.702 ³⁷	68.80 ¹⁴³	54.817 ³⁵	25.93 ¹³⁹	36.443 ⁴¹	19.48 ¹⁴	52.802 ¹⁰	50.89 ³³³
21	47.739 ⁸	70.23 ¹⁵⁴	54.852 ¹	27.32 ¹¹⁵	36.484 ⁴	19.34 ⁸	52.812 ⁴⁶	54.22 ³¹⁰
31	47.731 ⁴⁸	71.77 ¹⁵⁸	54.851 ³¹	28.47 ⁸⁹	36.488 ²⁷	19.42 ²⁵	52.766 ⁹⁵	57.32 ²⁸²
Apr. 10	47.683 ⁸⁰	73.35 ¹⁵⁴	54.820 ⁵⁷	29.36 ⁶⁴	36.461 ⁵²	19.67 ³⁹	52.671 ¹³⁸	60.14 ²⁴⁸
20	47.603 ¹⁰⁵	74.89 ¹⁴³	54.763 ⁷⁶	30.00 ⁴¹	36.409 ⁷²	20.06 ⁴⁹	52.533 ¹⁷³	62.62 ²¹¹
30	47.498 ¹²²	76.32 ¹²⁸	54.687 ⁸⁹	30.41 ¹⁸	36.337 ⁸⁵	20.55 ⁵⁶	52.360 ²⁰¹	64.73 ¹⁶⁹
Mai 10	47.376 ¹³²	77.60 ¹⁰⁶	54.598 ⁹⁸	30.59 ³	36.252 ⁹³	21.11 ⁵⁹	52.159 ²²⁴	66.42 ¹²⁶
20	47.244 ¹³⁵	78.66 ⁸²	54.500 ¹⁰³	30.56 ²³	36.159 ⁹⁶	21.70 ⁶⁰	51.935 ²³⁸	67.68 ⁷⁹
30	47.109 ¹³⁴	79.48 ⁵⁶	54.397 ¹⁰³	30.33 ⁴³	36.063 ⁹⁶	22.30 ⁶⁰	51.697 ²⁴⁷	68.47 ³²
Juni 9	46.975 ¹²⁸	80.04 ²⁷	54.294 ¹⁰⁰	29.90 ⁵⁹	35.967 ⁹²	22.90 ⁵⁶	51.450 ²⁴⁹	68.79 ¹⁵
19	46.847 ¹¹⁷	80.31 ³	54.194 ⁹⁵	29.31 ⁷⁵	35.875 ⁸⁶	23.46 ⁵²	51.201 ²⁴⁴	68.64 ⁶¹
29	46.730 ¹⁰³	80.28 ³²	54.099 ⁸⁶	28.56 ⁸⁸	35.789 ⁷⁶	23.98 ⁴⁶	50.957 ²³²	68.03 ¹⁰⁵
Juli 9	46.627 ⁸⁵	79.96 ⁶¹	54.013 ⁷⁴	27.68 ⁹⁸	35.713 ⁶³	24.44 ³⁷	50.725 ²¹²	66.98 ¹⁴⁶
19	46.542 ⁶⁶	79.35 ⁸⁹	53.939 ⁵⁹	26.70 ¹⁰⁵	35.650 ⁴⁹	24.81 ²⁷	50.513 ¹⁸⁷	65.52 ¹⁸³
29	46.476 ⁴²	78.46 ¹¹⁶	53.880 ⁴²	25.65 ¹⁰⁸	35.601 ³²	25.08 ¹⁶	50.326 ¹⁵²	63.69 ²¹³
Aug. 8	46.434 ¹⁷	77.30 ¹⁴³	53.838 ¹⁹	24.57 ¹⁰⁶	35.569 ¹¹	25.24 ¹	50.174 ¹¹⁰	61.56 ²³⁶
18	46.417 ¹³	75.87 ¹⁶⁷	53.819 ⁶	23.51 ¹⁰⁰	35.558 ¹³	25.25 ¹⁵	50.064 ⁶²	59.20 ²⁵²
28	46.430 ⁴⁵	74.20 ¹⁹⁰	53.825 ³⁶	22.51 ⁸⁷	35.571 ⁴⁰	25.10 ³⁴	50.002 ⁶	56.68 ²⁵⁷
Sept. 7	46.475 ⁸¹	72.30 ²¹⁰	53.861 ⁶⁸	21.64 ⁷⁰	35.611 ⁷¹	24.76 ⁵⁴	49.996 ⁵⁵	54.11 ²⁵³
17	46.556 ¹¹⁹	70.20 ²²⁸	53.929 ¹⁰⁵	20.94 ⁴⁷	35.682 ¹⁰⁵	24.22 ⁷⁷	50.051 ¹²¹	51.58 ²³⁸
27	46.675 ¹⁶⁰	67.92 ²⁴⁴	54.034 ¹⁴⁴	20.47 ¹⁹	35.787 ¹⁴¹	23.45 ¹⁰²	50.172 ¹⁸⁸	49.20 ²¹³
Okt. 7	46.835 ²⁰³	65.48 ²⁵⁴	54.178 ¹⁸⁴	20.28 ¹³	35.928 ¹⁷⁹	22.43 ¹²⁶	50.360 ²⁵⁶	47.07 ¹⁷⁸
17	47.038 ²⁴⁵	62.94 ²⁶¹	54.362 ²²⁴	20.41 ⁴⁷	36.107 ²¹⁷	21.17 ¹⁵⁰	50.616 ³¹⁹	45.29 ¹³⁴
27	47.283 ²⁸⁶	60.33 ²⁶²	54.586 ²⁶¹	20.88 ⁸⁵	36.324 ²⁵⁴	19.67 ¹⁷³	50.935 ³⁷⁸	43.95 ⁸³
Nov. 6	47.569 ³²⁴	57.71 ²⁵⁸	54.847 ²⁹⁴	21.73 ¹²¹	36.578 ²⁸⁷	17.94 ¹⁹²	51.313 ⁴²⁶	43.12 ²⁷
16	47.893 ³⁵⁴	55.13 ²⁴⁵	55.141 ³²¹	22.94 ¹⁵⁵	36.865 ³¹⁴	16.02 ²⁰⁷	51.739 ⁴⁶²	42.85 ³²
26	48.247 ³⁷⁶	52.68 ²²⁶	55.462 ³³⁹	24.49 ¹⁸⁶	37.179 ³³⁴	13.95 ²¹⁷	52.201 ⁴⁸⁵	43.17 ⁹³
Dez. 6	48.623 ³⁹⁰	50.42 ²⁰¹	55.801 ³⁴⁸	26.35 ²¹²	37.513 ³⁴³	11.78 ²²⁰	52.686 ⁴⁹³	44.10 ¹⁵⁰
16	49.013 ³⁹¹	48.41 ¹⁶⁸	56.149 ³⁴⁶	28.47 ²³¹	37.856 ³⁴⁴	9.58 ²¹⁶	53.179 ⁴⁸³	45.60 ²⁰⁵
26	49.404 ³⁸⁰	46.73 ¹³¹	56.495 ³³²	30.78 ²⁴³	38.200 ³³³	7.42 ²⁰⁶	53.662 ⁴⁵⁹	47.65 ²⁵²
36	49.784	45.42	56.827	33.21	38.533	5.36	54.121	50.17
Mittl. Ort	45.439	75.67	53.348	17.75	34.771	27.91	51.204	45.66
sec δ , tg δ	1.199	+0.661	1.032	—0.257	1.006	+0.112	1.706	—1.382
a, a'	+3.2	—19.7	+3.0	—19.7	+3.1	—19.7	+2.7	—19.7
b, b'	—0.04	—0.20	+0.02	—0.19	—0.01	—0.18	+0.09	—0.18

Tag	429) Grb 1771		433) λ Draconis		434) ϵ Hydrae		436) λ Centauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	11 ^h 18 ^m	+64° 41'	11 ^h 27 ^m	+69° 42'	11 ^h 29 ^m	—31° 28'	11 ^h 32 ^m	—62° 37'
Jan. 1	48.12 ₆₂	75.72 ₂	22.00 ₇₅	27.87 ₆	36.051 ₃₄₈	20.27 ₂₆₅	34.81 ₅₃	56.72 ₂₅₆
11	48.74 ₅₈	75.74 ₆₁	22.75 ₇₀	27.93 ₆₇	36.399 ₃₁₈	22.92 ₂₈₁	35.34 ₄₉	59.28 ₂₉₈
21	49.32 ₅₁	76.35 ₁₁₇	23.45 ₆₁	28.60 ₁₂₅	36.717 ₂₇₉	25.73 ₂₉₁	35.83 ₄₂	62.26 ₃₃₁
31	49.83 ₄₂	77.52 ₁₆₆	24.06 ₅₂	29.85 ₁₇₇	36.996 ₂₃₅	28.64 ₂₉₃	36.25 ₃₅	65.57 ₃₅₅
Feb. 10	50.25 ₃₃	79.18 ₂₀₉	24.58 ₄₂	31.62 ₂₂₀	37.231 ₁₈₇	31.57 ₂₈₇	36.60 ₂₇	69.12 ₃₇₀
20	50.58 ₂₃	81.27 ₂₄₁	25.00 ₂₉	33.82 ₂₅₄	37.418 ₁₃₈	34.44 ₂₇₆	36.87 ₁₈	72.82 ₃₇₇
März 2	50.81 ₁₃	83.68 ₂₆₂	25.29 ₁₆	36.36 ₂₇₅	37.556 ₉₀	37.20 ₂₅₈	37.05 ₁₁	76.59 ₃₇₃
12	50.94 ₁₃	86.30 ₂₇₁	25.45 ₁₅	39.11 ₂₈₅	37.646 ₄₆	39.78 ₂₃₆	37.16 ₃	80.32 ₃₆₁
21	50.97 ₇	89.01 ₂₇₀	25.49 ₈	41.96 ₂₈₂	37.692 ₅	42.14 ₂₁₂	37.19 ₄	83.93 ₃₄₃
31	50.90 ₁₆	91.71 ₂₅₆	25.41 ₁₈	44.78 ₂₆₉	37.697 ₃₀	44.26 ₁₈₅	37.15 ₁₁	87.36 ₃₁₉
Apr. 10	50.74 ₂₂	94.27 ₂₃₃	25.23 ₂₈	47.47 ₂₄₅	37.667 ₅₉	46.11 ₁₅₅	37.04 ₁₇	90.55 ₂₈₈
20	50.52 ₂₈	96.60 ₂₀₂	24.95 ₃₅	49.92 ₂₁₁	37.608 ₈₃	47.66 ₁₂₄	36.87 ₂₁	93.43 ₂₅₂
30	50.24 ₃₃	98.62 ₁₆₂	24.60 ₄₁	52.03 ₁₇₁	37.525 ₁₀₂	48.90 ₉₂	36.66 ₂₆	95.95 ₂₁₁
Mai 10	49.91 ₃₅	100.24 ₁₁₈	24.19 ₄₅	53.74 ₁₂₄	37.423 ₁₁₆	49.82 ₅₉	36.40 ₂₉	98.06 ₁₆₇
20	49.56 ₃₆	101.42 ₇₁	23.74 ₄₈	54.98 ₇₅	37.307 ₁₂₅	50.41 ₂₇	36.11 ₃₂	99.73 ₁₂₀
30	49.20 ₃₇	102.13 ₂₁	23.26 ₄₈	55.73 ₂₂	37.182 ₁₃₀	50.68 ₆	35.79 ₃₄	100.93 ₇₀
Juni 9	48.83 ₃₆	102.34 ₃₀	22.78 ₄₇	55.95 ₃₀	37.052 ₁₃₁	50.62 ₃₇	35.45 ₃₄	101.63 ₁₉
19	48.47 ₃₃	102.04 ₇₉	22.31 ₄₄	55.65 ₈₂	36.921 ₁₂₈	50.25 ₆₈	35.11 ₃₄	101.82 ₃₁
29	48.14 ₃₀	101.25 ₁₂₆	21.87 ₄₁	54.83 ₁₃₂	36.793 ₁₂₂	49.57 ₉₆	34.77 ₃₄	101.51 ₈₁
Juli 9	47.84 ₂₆	99.99 ₁₇₁	21.46 ₃₇	53.51 ₁₇₈	36.671 ₁₁₁	48.61 ₁₂₂	34.43 ₃₂	100.70 ₁₂₇
19	47.58 ₂₂	98.28 ₂₁₂	21.09 ₃₁	51.73 ₂₂₂	36.560 ₉₇	47.39 ₁₄₂	34.11 ₂₈	99.43 ₁₆₉
29	47.36 ₁₇	96.16 ₂₄₉	20.78 ₂₅	49.51 ₂₆₀	36.463 ₇₇	45.97 ₁₅₉	33.83 ₂₄	97.74 ₂₀₇
Aug. 8	47.19 ₁₁	93.67 ₂₈₀	20.53 ₁₈	46.91 ₂₉₄	36.386 ₅₃	44.38 ₁₆₉	33.59 ₁₉	95.67 ₂₃₈
18	47.08 ₄	90.87 ₃₀₈	20.35 ₁₀	43.97 ₃₂₁	36.333 ₂₃	42.69 ₁₇₄	33.40 ₁₃	93.29 ₂₅₉
28	47.04 ₂	87.79 ₃₄₈	20.25 ₂	40.76 ₃₄₂	36.310 ₁₁	40.95 ₁₇₀	33.27 ₆	90.70 ₂₇₂
Sept. 7	47.06 ₉	84.51 ₃₄₃	20.23 ₇	37.34 ₃₅₈	36.321 ₄₉	39.25 ₁₆₀	33.21 ₂	87.98 ₂₇₅
17	47.15 ₁₆	81.08 ₃₅₂	20.30 ₁₆	33.76 ₃₆₆	36.370 ₉₃	37.65 ₁₄₀	33.23 ₁₁	85.23 ₂₆₇
27	47.31 ₂₄	77.56 ₃₅₄	20.46 ₂₆	30.10 ₃₆₇	36.463 ₁₃₉	36.25 ₁₁₅	33.34 ₁₉	82.56 ₂₄₇
Okt. 7	47.55 ₃₂	74.02 ₃₄₈	20.72 ₃₅	26.43 ₃₆₀	36.602 ₁₈₆	35.10 ₈₁	33.53 ₂₈	80.09 ₂₁₆
17	47.87 ₃₉	70.54 ₃₃₅	21.07 ₄₄	22.83 ₃₄₆	36.788 ₂₃₂	34.29 ₄₁	33.81 ₃₇	77.93 ₁₇₆
27	48.26 ₄₆	67.19 ₃₁₃	21.51 ₅₂	19.37 ₃₂₃	37.020 ₂₇₆	33.88 ₁	34.18 ₄₄	76.17 ₁₂₇
Nov. 6	48.72 ₅₃	64.06 ₂₈₄	22.03 ₆₁	16.14 ₂₉₂	37.296 ₃₁₅	33.89 ₄₉	34.62 ₅₀	74.90 ₇₂
16	49.25 ₅₈	61.22 ₂₄₈	22.64 ₆₈	13.22 ₂₅₃	37.611 ₃₄₅	34.38 ₉₆	35.12 ₅₅	74.18 ₁₁
26	49.83 ₆₃	58.74 ₂₀₃	23.32 ₇₃	10.69 ₂₀₆	37.956 ₃₆₈	35.34 ₁₄₁	35.67 ₅₉	74.07 ₅₁
Dez. 6	50.46 ₆₅	56.71 ₁₅₁	24.05 ₇₇	8.63 ₁₅₃	38.324 ₃₇₇	36.75 ₁₈₃	36.26 ₆₀	74.58 ₁₁₃
16	51.11 ₆₅	55.20 ₉₅	24.82 ₇₈	7.10 ₉₄	38.701 ₃₇₇	38.58 ₂₂₀	36.86 ₅₉	75.71 ₁₇₂
26	51.76 ₆₄	54.25 ₃₇	25.60 ₇₆	6.16 ₃₃	39.078 ₃₆₄	40.78 ₂₅₀	37.45 ₅₇	77.43 ₂₂₆
36	52.40	53.88	26.36	5.83	39.442	43.28	38.02	79.69
Mittl. Ort	46.32	90.25	19.78	43.44	36.230	32.44	35.32	76.56
sec δ , tg δ	2.341	+2.116	2.884	+2.705	1.172	—0.612	2.176	—1.932
a, a'	+3.6	—19.7	+3.6	—19.8	+3.0	—19.9	+2.8	—19.9
b, b'	—0.14	—0.18	—0.18	—0.14	+0.04	—0.13	+0.13	—0.12

Tag	437) α Leonis		440) γ Draconis		441) χ Ursae maj.		444) β Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$11^h 33^m$	$-0^\circ 26'$	$11^h 38^m$	$+67^\circ 6'$	$11^h 42^m$	$+48^\circ 9'$	$11^h 45^m$	$+14^\circ 57'$
Jan. 1	24.989 ³²⁴	32.02 ²¹⁶	40.26 ⁶⁸	81.13 ¹⁶	25.621 ⁴⁴⁵	30.18 ⁸²	32.639 ³³⁸	24.31 ¹⁸²
11	25.313 ²⁹⁹	34.18 ²⁰²	40.94 ⁶⁴	80.97 ⁴⁵	26.066 ⁴¹⁷	29.36 ²⁷	32.977 ³¹⁶	22.49 ¹⁵⁴
21	25.612 ²⁶⁷	36.20 ¹⁸⁴	41.58 ⁵⁸	81.42 ¹⁰⁴	26.483 ³⁷⁷	29.09 ²⁷	33.293 ²⁸⁵	20.95 ¹²²
31	25.879 ²²⁸	38.04 ¹⁶¹	42.16 ⁴⁹	82.46 ¹⁵⁷	26.860 ³²⁶	29.36 ⁷⁷	33.578 ²⁴⁶	19.73 ⁸⁷
Feb. 10	26.107 ¹⁸⁵	39.65 ¹³⁶	42.65 ⁴⁰	84.03 ²⁰³	27.186 ²⁶⁶	30.13 ¹²³	33.824 ²⁰⁴	18.86 ⁵³
20	26.292 ¹⁴¹	41.01 ¹⁰⁹	43.05 ²⁹	86.06 ²⁴⁰	27.452 ²⁰¹	31.36 ¹⁶³	34.028 ¹⁵⁸	18.33 ²⁰
März 2	26.433 ⁹⁷	42.10 ⁸²	43.34 ¹⁸	88.46 ²⁶⁵	27.653 ¹³⁶	32.99 ¹⁹²	34.186 ¹¹³	18.13 ¹¹
12	26.530 ⁵⁷	42.92 ⁵⁶	43.52 ⁷	91.11 ²⁷⁹	27.789 ⁷²	34.91 ²¹³	34.299 ⁷⁰	18.24 ³⁷
21	26.587 ²⁰	43.48 ³³	43.59 ⁴	93.90 ²⁸¹	27.861 ¹¹	37.04 ²²⁴	34.369 ³⁰	18.61 ⁵⁹
31	26.607 ¹²	43.81 ¹²	43.55 ¹³	96.71 ²⁷¹	27.872 ⁴³	39.28 ²²⁵	34.399 ⁵	19.20 ⁷⁴
Apr. 10	26.595 ³⁷	43.93 ⁵	43.42 ²²	99.42 ²⁵⁰	27.829 ⁸⁹	41.53 ²¹⁵	34.394 ³³	19.94 ⁸⁵
20	26.558 ⁵⁹	43.88 ²¹	43.20 ²⁹	101.92 ²²¹	27.740 ¹²⁷	43.68 ¹⁹⁸	34.361 ⁵⁶	20.79 ⁹¹
30	26.499 ⁷³	43.67 ³³	42.91 ³⁴	104.13 ¹⁸³	27.613 ¹⁵⁷	45.66 ¹⁷⁴	34.305 ⁷⁴	21.70 ⁹¹
Mai 10	26.426 ⁸⁴	43.34 ⁴³	42.57 ³⁸	105.96 ¹⁴⁰	27.456 ¹⁷⁷	47.40 ¹⁴²	34.231 ⁸⁷	22.61 ⁸⁸
20	26.342 ⁹⁰	42.91 ⁴⁹	42.19 ⁴¹	107.36 ⁹¹	27.279 ¹⁹⁰	48.82 ¹⁰⁷	34.144 ⁹⁵	23.49 ⁸¹
30	26.252 ⁹²	42.42 ⁵⁵	41.78 ⁴¹	108.27 ⁴²	27.089 ¹⁹⁴	49.89 ⁶⁹	34.049 ⁹⁹	24.30 ⁷¹
Juni 9	26.160 ⁹²	41.87 ⁵⁹	41.37 ⁴¹	108.69 ¹¹	26.895 ¹⁹³	50.58 ²⁸	33.950 ⁹⁹	25.01 ⁵⁹
19	26.068 ⁸⁸	41.28 ⁶⁰	40.96 ⁴⁰	108.58 ⁶²	26.702 ¹⁸⁶	50.86 ¹³	33.851 ⁹⁶	25.60 ⁴⁶
29	25.980 ⁸²	40.68 ⁵⁹	40.56 ³⁷	107.96 ¹¹²	26.516 ¹⁷³	50.73 ⁵⁵	33.755 ⁹⁰	26.06 ³⁰
Juli 9	25.898 ⁷²	40.09 ⁵⁷	40.19 ³³	106.84 ¹⁵⁹	26.343 ¹⁵⁶	50.18 ⁹⁵	33.665 ⁸²	26.36 ¹⁴
19	25.826 ⁶⁰	39.52 ⁵³	39.86 ²⁹	105.25 ²⁰³	26.187 ¹³⁴	49.23 ¹³³	33.583 ⁷⁰	26.50 ³
29	25.766 ⁴⁵	38.99 ⁴⁵	39.57 ²⁴	103.22 ²⁴⁴	26.053 ¹⁰⁷	47.90 ¹⁷⁰	33.513 ⁵⁵	26.47 ²³
Aug. 8	25.721 ²⁶	38.54 ³⁵	39.33 ¹⁸	100.78 ²⁷⁸	25.946 ⁷⁶	46.20 ²⁰³	33.458 ³⁷	26.24 ⁴²
18	25.695 ³	38.19 ²²	39.15 ¹¹	98.00 ³⁰⁸	25.870 ⁴²	44.17 ²³³	33.421 ¹⁵	25.82 ⁶³
28	25.692 ²⁴	37.97 ⁶	39.04 ⁴	94.92 ³³²	25.828 ²	41.84 ²⁵⁹	33.406 ¹²	25.19 ⁸⁵
Sept. 7	25.716 ⁵⁴	37.91 ¹⁴	39.00 ³	91.60 ³⁵¹	25.826 ⁴¹	39.25 ²⁸²	33.418 ⁴²	24.34 ¹⁰⁷
17	25.770 ⁸⁸	38.05 ³⁷	39.03 ¹²	88.09 ³⁶¹	25.867 ⁸⁹	36.43 ³⁰⁰	33.460 ⁷⁶	23.27 ¹³⁰
27	25.858 ¹²⁵	38.42 ⁶²	39.15 ²⁰	84.48 ³⁶⁶	25.956 ¹⁴⁰	33.43 ³¹³	33.536 ¹¹³	21.97 ¹⁵³
Okt. 7	25.983 ¹⁶⁵	39.04 ⁸⁹	39.35 ²⁹	80.82 ³⁶³	26.096 ¹⁹²	30.30 ³²⁰	33.649 ¹⁵⁴	20.44 ¹⁷⁵
17	26.148 ²⁰⁴	39.93 ¹¹⁶	39.64 ³⁸	77.19 ³⁵²	26.288 ²⁴⁶	27.10 ³²⁰	33.803 ¹⁹⁵	18.69 ¹⁹⁴
27	26.352 ²⁴²	41.09 ¹⁴⁴	40.02 ⁴⁵	73.67 ³³³	26.534 ²⁹⁹	23.90 ³¹³	33.998 ²³⁵	16.75 ²¹²
Nov. 6	26.594 ²⁷⁷	42.53 ¹⁷⁰	40.47 ⁵³	70.34 ³⁰⁴	26.833 ³⁴⁸	20.77 ²⁹⁹	34.233 ²⁷²	14.63 ²²⁵
16	26.871 ³⁰⁷	44.23 ¹⁹¹	41.00 ⁶⁰	67.30 ²⁶⁹	27.181 ³⁹¹	17.78 ²⁷⁷	34.505 ³⁰⁴	12.38 ²³²
26	27.178 ³²⁸	46.14 ²⁰⁸	41.60 ⁶⁵	64.61 ²²⁴	27.572 ⁴²⁴	15.01 ²⁴⁷	34.809 ³²⁹	10.06 ²³⁴
Dez. 6	27.506 ³⁴¹	48.22 ²¹⁹	42.25 ⁶⁹	62.37 ¹⁷³	27.996 ⁴⁴⁸	12.54 ²⁰⁸	35.138 ³⁴⁶	7.72 ²²⁹
16	27.847 ³⁴³	50.41 ²²⁴	42.94 ⁷⁰	60.64 ¹¹⁶	28.444 ⁴⁵⁸	10.46 ¹⁶⁵	35.484 ³⁵¹	5.43 ²¹⁷
26	28.190 ³³⁵	52.65 ²²¹	43.64 ⁶⁹	59.48 ⁵⁶	28.902 ⁴⁵⁴	8.81 ¹¹⁴	35.835 ³⁴⁷	3.26 ¹⁹⁷
36	28.525	54.86	44.33	58.92	29.356	7.67	36.182	1.29
Mittl. Ort	24.945	33.78	38.47	97.08	24.879	43.21	32.509	28.21
sec δ , tg δ	1.000	-0.008	2.573	+2.370	1.499	+1.117	1.035	+0.267
a, a'	+3.1	-19.9	+3.4	-20.0	+3.2	-20.0	+3.1	-20.0
b, b'	0.00	-0.12	-0.16	-0.09	-0.07	-0.08	-0.02	-0.06

Tag	445) β Virginis		447) γ Ursae maj.		450) α Virginis		452) δ Centauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	11 ^h 47 ^m	+2° 8'	11 ^h 50 ^m	+54° 4'	12 ^h 1 ^m	+9° 6'	12 ^h 4 ^m	—50° 20'
Jan. 1	6.052 ³³¹	73.25 ²¹²	13.494 ⁴⁹³	27.42 ⁷²	41.674 ³³⁷	55.34 ²⁰⁰	45.727 ⁴⁴⁷	0.79 ²³⁴
11	6.383 ³⁰⁹	71.13 ¹⁹⁷	13.987 ⁴⁶⁶	26.70 ¹⁴	42.011 ³¹⁸	53.34 ¹⁷⁸	46.174 ⁴¹⁷	3.13 ²⁷⁰
21	6.692 ²⁷⁸	69.16 ¹⁷⁶	14.453 ⁴²⁴	26.56 ⁴³	42.329 ²⁸⁹	51.56 ¹⁵¹	46.591 ³⁷⁵	5.83 ²⁹⁹
31	6.970 ²⁴¹	67.40 ¹⁵¹	14.877 ³⁶⁹	26.99 ⁹⁶	42.618 ²⁵⁴	50.05 ¹²¹	46.966 ³²⁵	8.82 ³²⁰
Feb. 10	7.211 ²⁰⁰	65.89 ¹²⁴	15.246 ³⁰³	27.95 ¹⁴⁵	42.872 ²¹⁴	48.84 ⁸⁸	47.291 ²⁷⁰	12.02 ³³²
20	7.411 ¹⁵⁶	64.65 ⁹⁶	15.549 ²³²	29.40 ¹⁸⁴	43.086 ¹⁷⁰	47.96 ⁵⁶	47.561 ²¹²	15.34 ³³⁶
März 2	7.567 ¹¹³	63.69 ⁶⁸	15.781 ¹⁵⁹	31.24 ²¹⁶	43.256 ¹²⁸	47.40 ²⁶	47.773 ¹⁵⁴	18.70 ³³³
12	7.680 ⁷²	63.01 ⁴²	15.940 ⁸⁶	33.40 ²³⁷	43.384 ⁸⁶	47.14 ¹	47.927 ⁹⁸	22.03 ³²²
21*) ²⁰	7.752 ³⁵	62.59 ¹⁸	16.026 ¹⁷	35.77 ²⁴⁷	43.470 ⁴⁸	47.15 ²⁵	48.025 ⁴⁵	25.25 ³⁰⁵
31	7.787 ³	62.41 ²	16.043 ⁴⁷	38.24 ²⁴⁶	43.518 ¹⁴	47.40 ⁴⁴	48.070 ⁴	28.30 ²⁸⁴
Apr. 10	7.790 ²⁴	62.43 ¹⁹	15.996 ¹⁰²	40.70 ²³⁵	43.532 ¹⁶	47.84 ⁵⁸	48.066 ⁴⁷	31.14 ²⁵⁷
20	7.766 ⁴⁷	62.62 ³³	15.894 ¹⁴⁷	43.05 ²¹⁵	43.516 ³⁹	48.42 ⁶⁹	48.019 ⁸⁶	33.71 ²²⁶
30	7.719 ⁶³	62.95 ⁴³	15.747 ¹⁸³	45.20 ¹⁸⁷	43.477 ⁵⁸	49.11 ⁷⁴	47.933 ¹²⁰	35.97 ¹⁹²
Mai 10	7.656 ⁷⁶	63.38 ⁵¹	15.564 ²¹⁰	47.07 ¹⁵³	43.419 ⁷³	49.85 ⁷⁶	47.813 ¹⁴⁸	37.89 ¹⁵⁴
20	7.580 ⁸⁴	63.89 ⁵⁵	15.354 ²²⁷	48.60 ¹¹⁴	43.346 ⁸³	50.61 ⁷⁵	47.665 ¹⁷¹	39.43 ¹¹³
30	7.496 ⁸⁹	64.44 ⁵⁸	15.127 ²³⁶	49.74 ⁷¹	43.263 ⁸⁹	51.36 ⁷⁰	47.494 ¹⁸⁹	40.56 ⁷²
Juni 9	7.407 ⁹⁰	65.02 ⁵⁸	14.891 ²³⁶	50.45 ²⁷	43.174 ⁹³	52.06 ⁶⁴	47.305 ²⁰²	41.28 ²⁸
19	7.317 ⁸⁸	65.60 ⁵⁷	14.655 ²³⁰	50.72 ¹⁸	43.081 ⁹⁴	52.70 ⁵⁶	47.103 ²¹⁰	41.56 ¹⁵
29	7.229 ⁸⁴	66.17 ⁵⁴	14.425 ²¹⁷	50.54 ⁶³	42.987 ⁹⁰	53.26 ⁴⁵	46.893 ²¹⁰	41.41 ⁵⁷
Juli 9	7.145 ⁷⁶	66.71 ⁴⁸	14.208 ¹⁹⁷	49.91 ¹⁰⁸	42.897 ⁸⁵	53.71 ³³	46.683 ²⁰⁵	40.84 ⁹⁸
19	7.069 ⁶⁶	67.19 ⁴²	14.011 ¹⁷³	48.83 ¹⁴⁹	42.812 ⁷⁷	54.04 ¹⁹	46.478 ¹⁹²	39.86 ¹³⁶
29	7.003 ⁵²	67.61 ³²	13.838 ¹⁴⁴	47.34 ¹⁸⁸	42.735 ⁶⁴	54.23 ⁵	46.286 ¹⁷²	38.50 ¹⁶⁹
Aug. 8	6.951 ³⁵	67.93 ²⁰	13.694 ¹⁰⁹	45.46 ²²³	42.671 ⁴⁸	54.28 ¹²	46.114 ¹⁴³	36.81 ¹⁹⁶
18	6.916 ¹³	68.13 ⁶	13.585 ⁶⁹	43.23 ²⁵⁵	42.623 ²⁸	54.16 ³¹	45.971 ¹⁰⁶	34.85 ²¹⁶
28	6.903 ¹²	68.19 ¹¹	13.516 ²⁵	40.68 ²⁸³	42.595 ³	53.85 ⁵⁰	45.865 ⁶¹	32.69 ²²⁹
Sept. 7	6.915 ⁴²	68.08 ³⁰	13.491 ²⁵	37.85 ³⁰⁶	42.592 ²⁶	53.35 ⁷²	45.804 ⁹	30.40 ²³³
17	6.957 ⁷⁶	67.78 ⁵⁴	13.516 ⁷⁸	34.79 ³²³	42.618 ⁵⁹	52.63 ⁹⁶	45.795 ⁵⁰	28.07 ²²⁶
27	7.033 ¹¹³	67.24 ⁷⁹	13.594 ¹³⁵	31.56 ³³⁵	42.677 ⁹⁶	51.67 ¹¹⁹	45.845 ¹¹³	25.81 ²¹⁰
Okt. 7	7.146 ¹⁵²	66.45 ¹⁰⁴	13.729 ¹⁹⁵	28.21 ³⁴¹	42.773 ¹³⁷	50.48 ¹⁴³	45.958 ¹⁷⁹	23.71 ¹⁸⁵
17	7.298 ¹⁹³	65.41 ¹³¹	13.924 ²⁵⁵	24.80 ³³⁹	42.910 ¹⁷⁸	49.05 ¹⁶⁶	46.137 ²⁴⁵	21.86 ¹⁵⁰
27	7.491 ²³³	64.10 ¹⁵⁶	14.179 ³¹⁶	21.41 ³²⁹	43.088 ²²⁰	47.39 ¹⁸⁸	46.382 ³⁰⁷	20.36 ¹⁰⁷
Nov. 6	7.724 ²⁷⁰	62.54 ¹⁷⁹	14.495 ³⁷¹	18.12 ³¹¹	43.308 ²⁵⁸	45.51 ²⁰⁵	46.689 ³⁶³	19.29 ⁵⁷
16	7.994 ³⁰¹	60.75 ¹⁹⁹	14.866 ⁴²⁰	15.01 ²⁸⁵	43.566 ²⁹²	43.46 ²²⁰	47.052 ⁴⁰⁹	18.72 ⁴
26	8.295 ³²⁵	58.76 ²¹⁴	15.286 ⁴⁶¹	12.16 ²⁵²	43.858 ³¹⁹	41.26 ²²⁸	47.461 ⁴⁴⁴	18.68 ⁵¹
Dez. 6	8.620 ³⁴¹	56.62 ²²²	15.747 ⁴⁸⁹	9.64 ²⁰⁹	44.177 ³³⁸	38.98 ²²⁹	47.905 ⁴⁶⁵	19.19 ¹⁰⁶
16	8.961 ³⁴⁶	54.40 ²²⁴	16.236 ⁵⁰³	7.55 ¹⁶¹	44.515 ³⁴⁶	36.69 ²²⁴	48.370 ⁴⁷²	20.25 ¹⁵⁹
26	9.307 ³⁴⁰	52.16 ²¹⁹	16.739 ⁵⁰¹	5.94 ¹⁰⁷	44.861 ³⁴⁴	34.45 ²¹²	48.842 ⁴⁶²	21.84 ²⁰⁷
36	9.647	49.97	17.240	4.87	45.205	32.33	49.304	23.91
Mittl. Ort	6.063	72.86	12.617	42.02	41.701	57.89	46.408	17.39
sec δ , tg δ	1.001	+0.038	1.704	+1.380	1.013	+0.160	1.567	—1.206
a, a'	+3.1	—20.0	+3.2	—20.0	+3.1	—20.0	+3.1	—20.0
b, b'	0.00	—0.06	—0.09	—0.04	—0.01	+0.01	+0.08	+0.02

*) Bei Stern 450) und 452) lies März 22

Tag	453) ϵ Corvi		454) 4 H. Draconis		456) δ Ursae maj.		459) β Chamael.	
	A.R.	Dekl.	A.R.	Dekl.	A.R.	Dekl.	A.R.	Dekl.
1931	12 ^h 6 ^m	—22° 14'	12 ^h 8 ^m	+77° 59'	12 ^h 12 ^m	+57° 24'	12 ^h 14 ^m	—78° 55'
Jan. 1	33.996 ³⁴⁹	1.56 ²³⁹	62.34 ¹¹⁹	40.24 ²⁷	2.027 ⁵³¹	40.79 ⁸⁸	13.15 ¹²³	23.79 ¹⁷⁷
11	34.345 ³²⁸	3.95 ²⁴⁹	63.53 ¹¹⁴	39.97 ³⁸	2.558 ⁵⁰⁹	39.91 ²⁸	14.38 ¹¹⁴	25.56 ²³¹
21	34.673 ²⁹⁷	6.44 ²⁵³	64.67 ¹⁰⁶	40.35 ¹⁰¹	3.067 ⁴⁷¹	39.63 ³²	15.52 ¹⁰³	27.87 ²⁷⁹
31	34.970 ²⁶¹	8.97 ²⁵⁰	65.73 ⁹³	41.36 ¹⁵⁹	3.538 ⁴¹⁷	39.95 ⁸⁹	16.55 ⁸⁹	30.66 ³¹⁹
Feb. 10	35.231 ²²⁰	11.47 ²⁴⁰	66.66 ⁷⁸	42.95 ²¹⁰	3.955 ³⁵⁴	40.84 ¹⁴¹	17.44 ⁷⁴	33.85 ³⁵⁰
20	35.451 ¹⁷⁶	13.87 ²²⁶	67.44 ⁶⁰	45.05 ²⁵¹	4.309 ²⁸¹	42.25 ¹⁸⁶	18.18 ⁵⁷	37.35 ³⁷³
März 2	35.627 ¹³³	16.13 ²⁰⁸	68.04 ⁴⁰	47.56 ²⁸⁰	4.590 ²⁰³	44.11 ²²¹	18.75 ⁴⁰	41.08 ³⁸⁶
12	35.760 ⁹¹	18.21 ¹⁸⁸	68.44 ²¹	50.36 ²⁹⁸	4.793 ¹²⁵	46.32 ²⁴⁶	19.15 ²²	44.94 ³⁹⁰
22	35.851 ⁵³	20.09 ¹⁶⁴	68.65 ⁰	53.34 ³⁰³	4.918 ²⁶	48.78 ²⁶⁰	19.37 ⁵	48.84 ³⁸⁶
31	35.904 ¹⁹	21.73 ¹⁴⁰	68.65 ¹⁸	56.37 ²⁹⁶	4.967 ²²	51.38 ²⁶³	19.42 ¹¹	52.70 ³⁷⁴
Apr. 10	35.923 ¹¹	23.13 ¹¹⁶	68.47 ³⁶	59.33 ²⁷⁷	4.945 ⁸⁶	54.01 ²⁵⁴	19.31 ²⁷	56.44 ³⁵⁵
20	35.912 ³⁶	24.29 ⁹¹	68.11 ⁵²	62.10 ²⁴⁷	4.859 ¹⁴⁰	56.55 ²³⁶	19.04 ⁴²	59.99 ³²⁸
30	35.876 ⁵⁸	25.20 ⁶⁶	67.59 ⁶⁴	64.57 ²¹⁰	4.719 ¹⁸⁶	58.91 ²¹⁰	18.62 ⁵⁵	63.27 ²⁹⁵
Mai 10	35.818 ⁷⁴	25.86 ⁴²	66.95 ⁷⁵	66.67 ¹⁶⁵	4.533 ²²¹	61.01 ¹⁷⁵	18.07 ⁶⁸	66.22 ²⁵⁶
20	35.744 ⁸⁸	26.28 ¹⁸	66.20 ⁸²	68.32 ¹¹⁵	4.312 ²⁴⁶	62.76 ¹³⁶	17.39 ⁷⁷	68.78 ²¹²
30	35.656 ⁹⁷	26.46 ⁶	65.38 ⁸⁷	69.47 ⁶²	4.066 ²⁶³	64.12 ⁹³	16.62 ⁸⁶	70.90 ¹⁶²
Juni 9	35.559 ¹⁰⁴	26.40 ²⁹	64.51 ⁸⁹	70.09 ⁶	3.803 ²⁷⁰	65.05 ⁴⁷	15.76 ⁹²	72.52 ¹¹¹
19	35.455 ¹⁰⁸	26.11 ⁵⁰	63.62 ⁸⁸	70.15 ⁵⁰	3.533 ²⁶⁹	65.52 ¹	14.84 ⁹⁶	73.63 ⁵⁷
29	35.347 ¹⁰⁸	25.61 ⁷⁰	62.74 ⁸⁵	69.65 ¹⁰³	3.264 ²⁶¹	65.51 ⁴⁹	13.88 ⁹⁷	74.20 ¹
Juli 9	35.239 ¹⁰⁴	24.91 ⁸⁸	61.89 ⁸¹	68.62 ¹⁵⁶	3.003 ²⁴⁶	65.02 ⁹⁶	12.91 ⁹⁵	74.21 ⁵⁵
19	35.135 ⁹⁶	24.03 ¹⁰²	61.08 ⁷³	67.06 ²⁰⁴	2.757 ²²⁴	64.06 ¹⁴¹	11.96 ⁹¹	73.66 ¹⁰⁷
29	35.039 ⁸⁵	23.01 ¹¹³	60.35 ⁶⁴	65.02 ²⁴⁸	2.533 ¹⁹⁶	62.65 ¹⁸³	11.05 ⁸³	72.59 ¹⁵⁸
Aug. 8	34.954 ⁶⁷	21.88 ¹²⁰	59.71 ⁵⁴	62.54 ²⁸⁸	2.337 ¹⁶¹	60.82 ²²²	10.22 ⁷²	71.01 ²⁰²
18	34.887 ⁴⁶	20.68 ¹²²	59.17 ⁴²	59.66 ³²¹	2.176 ¹²²	58.60 ²⁵⁷	9.50 ⁵⁸	68.99 ²⁴⁰
28	34.841 ¹⁸	19.46 ¹¹⁷	58.75 ²⁹	56.45 ³⁴⁹	2.054 ⁷⁵	56.03 ²⁸⁸	8.92 ⁴²	66.59 ²⁶⁹
Sept. 7	34.823 ¹⁶	18.29 ¹⁰⁸	58.46 ¹⁶	52.96 ³⁶⁹	1.979 ²⁴	53.15 ³¹⁴	8.50 ²⁴	63.90 ²⁸⁹
17	34.839 ⁵³	17.21 ⁹¹	58.30 ⁰	49.27 ³⁸²	1.955 ³⁴	50.01 ³³⁴	8.26 ³	61.01 ²⁹⁸
27	34.892 ⁹⁶	16.30 ⁶⁹	58.30 ¹⁶	45.45 ³⁸⁹	1.989 ⁹⁶	46.67 ³⁴⁹	8.23 ¹⁸	58.03 ²⁹⁴
Okt. 7	34.988 ¹⁴¹	15.61 ⁴¹	58.46 ³¹	41.56 ³⁸⁶	2.085 ¹⁶²	43.18 ³⁵⁶	8.41 ³⁹	55.09 ²⁸⁰
17	35.129 ¹⁸⁶	15.20 ⁸	58.77 ⁴⁷	37.70 ³⁷⁶	2.247 ²²⁹	39.62 ³⁵⁶	8.80 ⁶⁰	52.29 ²⁵²
27	35.315 ²³²	15.12 ²⁹	59.24 ⁶³	33.94 ³⁵⁷	2.476 ²⁹⁶	36.06 ³⁴⁸	9.40 ⁸⁰	49.77 ²¹⁴
Nov. 6	35.547 ²⁷⁴	15.41 ⁶⁸	59.87 ⁷⁸	30.37 ³²⁸	2.772 ³⁶¹	32.58 ³³¹	10.20 ⁹⁷	47.63 ¹⁶⁷
16	35.821 ³⁰⁹	16.09 ¹⁰⁶	60.65 ⁹²	27.09 ²⁹⁰	3.133 ⁴¹⁹	29.27 ³⁰⁶	11.17 ¹¹¹	45.96 ¹¹²
26	36.130 ³³⁷	17.15 ¹⁴⁴	61.57 ¹⁰³	24.19 ²⁴⁵	3.552 ⁴⁶⁸	26.21 ²⁷²	12.28 ¹²¹	44.84 ⁵¹
Dez. 6	36.467 ³⁵⁵	18.59 ¹⁷⁷	62.60 ¹¹²	21.74 ¹⁹¹	4.020 ⁵⁰⁵	23.49 ²³⁰	13.49 ¹²⁷	44.33 ¹³
16	36.822 ³⁶²	20.36 ²⁰⁶	63.72 ¹¹⁷	19.83 ¹³²	4.525 ⁵²⁷	21.19 ¹⁸⁰	14.76 ¹²⁹	44.46 ⁷⁷
26	37.184 ³⁵⁸	22.42 ²²⁸	64.89 ¹²⁰	18.51 ⁶⁹	5.052 ⁵³⁴	19.39 ¹²⁶	16.05 ¹²⁷	45.23 ¹⁴⁰
36	37.542	24.70	66.09	17.82	5.586	18.13	17.32	46.63
Mittl. Ort	34.348	9.78	59.32	58.61	1.227	57.00	15.59	45.05
sec δ , tg δ	1.080	—0.409	4.810	+4.704	1.857	+1.565	5.208	—5.111
a , a'	+3.1	—20.0	+2.8	—20.0	+3.0	—20.0	+3.5	—20.0
b , b'	+0.03	+0.03	—0.31	+0.04	—0.10	+0.05	+0.34	+0.06

Obere Kulmination Greenwich

97*

Tag	460) η Virginis		462) α Crucis med.		466) 20 Comae		465) δ Corvi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	12 ^h 16 ^m	—0° 17'	12 ^h 22 ^m	—62° 42'	12 ^h 26 ^m	+21° 16'	12 ^h 26 ^m	—16° 7'
Jan. 1	22.298 ³³⁷	0.36 ²¹⁸	43.84 ⁵⁹	43.50 ¹⁹⁷	15.364 ³⁵⁶	33.07 ¹⁸⁸	17.053 ³⁴⁷	47.86 ²²⁸
11	22.635 ³¹⁹	2.54 ²⁰⁵	44.43 ⁵⁵	45.47 ²⁴⁴	15.720 ³⁴⁰	31.19 ¹⁵³	17.400 ³²⁹	50.14 ²³³
21	22.954 ²⁹³	4.59 ¹⁸⁷	44.98 ⁵¹	47.91 ²⁸⁴	16.060 ³¹⁷	29.66 ¹¹⁵	17.729 ³⁰⁴	52.47 ²³²
31	23.247 ²⁶¹	6.46 ¹⁶⁵	45.49 ⁴⁵	50.75 ³¹⁶	16.377 ²⁸⁴	28.51 ⁷⁵	18.033 ²⁷¹	54.79 ²²⁴
Feb. 10	23.508 ²²²	8.11 ¹³⁹	45.94 ³⁷	53.91 ³³⁹	16.661 ²⁴⁵	27.76 ³³	18.304 ²³⁴	57.03 ²¹¹
20	23.730 ¹⁸²	9.50 ¹¹¹	46.31 ³¹	57.30 ³⁵⁴	16.906 ²⁰²	27.43 ⁵	18.538 ¹⁹³	59.14 ¹⁹⁴
März 2	23.912 ¹⁴⁰	10.61 ⁸⁴	46.62 ²³	60.84 ³⁶⁰	17.108 ¹⁵⁸	27.48 ⁴¹	18.731 ¹⁵²	61.08 ¹⁷³
12	24.052 ¹⁰¹	11.45 ⁵⁷	46.85 ¹⁵	64.44 ³⁵⁹	17.266 ¹¹⁴	27.89 ⁷²	18.883 ¹¹²	62.81 ¹⁵²
22	24.153 ⁶³	12.02 ³²	47.00 ⁸	68.03 ³⁵¹	17.380 ⁷³	28.61 ⁹⁶	18.995 ⁷⁵	64.33 ¹²⁸
31	24.216 ³¹	12.34 ¹¹	47.08 ¹	71.54 ³³⁴	17.453 ³⁴	29.57 ¹¹⁵	19.070 ⁴¹	65.61 ¹⁰⁶
Apr. 10	24.247 ¹	12.45 ⁹	47.09 ⁵	74.88 ³¹²	17.487 ¹	30.72 ¹²⁶	19.111 ¹¹	66.67 ⁸⁴
20	24.248 ²³	12.36 ²⁴	47.04 ¹¹	78.00 ²⁸⁵	17.488 ²⁷	31.98 ¹³¹	19.122 ¹⁵	67.51 ⁶²
30	24.225 ⁴⁴	12.12 ³⁶	46.93 ¹⁶	80.85 ²⁵¹	17.461 ⁵¹	33.29 ¹³⁰	19.107 ³⁷	68.13 ⁴¹
Mai 10	24.181 ⁶⁰	11.76 ⁴⁵	46.77 ²²	83.36 ²¹⁴	17.410 ⁷⁰	34.59 ¹²³	19.070 ⁵⁵	68.54 ²¹
20	24.121 ⁷²	11.31 ⁵²	46.55 ²⁵	85.50 ¹⁷²	17.340 ⁸⁵	35.82 ¹¹¹	19.015 ⁷¹	68.75 ²
30	24.049 ⁸¹	10.79 ⁵⁶	46.30 ²⁸	87.22 ¹²⁶	17.255 ⁹⁵	36.93 ⁹⁶	18.944 ⁸²	68.77 ¹⁵
Juni 9	23.968 ⁸⁷	10.23 ⁵⁸	46.02 ³¹	88.48 ⁷⁹	17.160 ¹⁰³	37.89 ⁷⁸	18.862 ⁹²	68.62 ³²
19	23.881 ⁹¹	9.65 ⁵⁹	45.71 ³³	89.27 ³⁰	17.057 ¹⁰⁷	38.67 ⁵⁸	18.770 ⁹⁷	68.30 ⁴⁷
29	23.790 ⁹¹	9.06 ⁵⁷	45.38 ³⁴	89.57 ¹⁹	16.950 ¹⁰⁷	39.25 ³⁵	18.673 ¹⁰¹	67.83 ⁶¹
Juli 9	23.699 ⁸⁸	8.49 ⁵³	45.04 ³⁴	89.38 ⁶⁸	16.843 ¹⁰⁵	39.60 ¹²	18.572 ¹⁰¹	67.22 ⁷²
19	23.611 ⁸²	7.96 ⁴⁸	44.70 ³²	88.70 ¹¹⁴	16.738 ⁹⁸	39.72 ¹³	18.471 ⁹⁷	66.50 ⁸¹
29	23.529 ⁷³	7.48 ⁴⁰	44.38 ³⁰	87.56 ¹⁵⁷	16.640 ⁸⁸	39.59 ³⁸	18.374 ⁸⁸	65.69 ⁸⁸
Aug. 8	23.456 ⁵⁹	7.08 ³⁰	44.08 ²⁵	85.99 ¹⁹⁵	16.552 ⁷³	39.21 ⁶³	18.286 ⁷⁵	64.81 ⁹⁰
18	23.397 ⁴¹	6.78 ¹⁸	43.83 ²¹	84.04 ²²⁵	16.479 ⁵⁵	38.58 ⁹⁰	18.211 ⁵⁶	63.91 ⁸⁹
28	23.356 ¹⁷	6.60 ²	43.62 ¹⁵	81.79 ²⁴⁸	16.424 ³¹	37.68 ¹¹⁵	18.155 ³¹	63.02 ⁸³
Sept. 7	23.339 ¹²	6.58 ¹⁷	43.47 ⁷	79.31 ²⁶²	16.393 ²	36.53 ¹⁴¹	18.124 ²	62.19 ⁷¹
17	23.351 ⁴⁵	6.75 ³⁹	43.40 ⁰	76.69 ²⁶⁵	16.391 ³²	35.12 ¹⁶⁵	18.122 ³⁴	61.48 ⁵⁵
27	23.396 ⁸²	7.14 ⁶²	43.40 ¹⁰	74.04 ²⁵⁸	16.423 ⁷⁰	33.47 ¹⁸⁹	18.156 ⁷⁴	60.93 ³⁴
Okt. 7	23.478 ¹²³	7.76 ⁸⁸	43.50 ¹⁹	71.46 ²³⁹	16.493 ¹¹²	31.58 ²¹¹	18.230 ¹¹⁷	60.59 ⁸
17	23.601 ¹⁶⁵	8.64 ¹¹⁵	43.69 ²⁸	69.07 ²¹⁰	16.605 ¹⁵⁷	29.47 ²³⁰	18.347 ¹⁶³	60.51 ²²
27	23.766 ²⁰⁸	9.79 ¹⁴²	43.97 ³⁷	66.97 ¹⁷¹	16.762 ²⁰¹	27.17 ²⁴⁶	18.510 ²⁰⁸	60.73 ⁵⁵
Nov. 6	23.974 ²⁴⁸	11.21 ¹⁶⁶	44.34 ⁴⁵	65.26 ¹²³	16.963 ²⁴⁴	24.71 ²⁵⁶	18.718 ²⁵²	61.28 ⁸⁹
16	24.222 ²⁸⁴	12.87 ¹⁸⁹	44.79 ⁵¹	64.03 ⁷⁰	17.207 ²⁸³	22.15 ²⁶⁰	18.970 ²⁸⁹	62.17 ¹²³
26	24.506 ³¹²	14.76 ²⁰⁶	45.30 ⁵⁷	63.33 ¹¹	17.490 ³¹⁷	19.55 ²⁵⁸	19.259 ³¹⁹	63.40 ¹⁵⁴
Dez. 6	24.818 ³³³	16.82 ²¹⁸	45.87 ⁶⁰	63.22 ⁴⁸	17.807 ³⁴¹	16.97 ²⁴⁹	19.578 ³⁴¹	64.94 ¹⁸²
16	25.151 ³⁴²	19.00 ²²³	46.47 ⁶¹	63.70 ¹⁰⁸	18.148 ³⁵⁵	14.48 ²³¹	19.919 ³⁵²	66.76 ²⁰⁵
26	25.493 ³⁴³	21.23 ²²²	47.08 ⁶¹	64.78 ¹⁶⁴	18.503 ³⁵⁹	12.17 ²⁰⁶	20.271 ³⁵³	68.81 ²²¹
36	25.836	23.45	47.69	66.42	18.862	10.11	20.624	71.02
Mittl. Ort	22.503	0.56	45.05	62.25	15.405	40.63	17.471	53.33
sec δ , tg δ	1.000	—0.005	2.182	—1.939	1.073	+0.390	1.041	—0.289
a, a'	+3.1	—20.0	+3.3	—19.9	+3.0	—19.9	+3.1	—19.9
b, b'	0.00	+0.07	+0.13	+0.10	—0.03	+0.11	+0.02	+0.11

Tag	470) 8 Canum ven.		472) α Draconis		471) β Corvi		473) 24 Comae sq.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	12 ^h 30 ^m	+41° 43'	12 ^h 30 ^m	+70° 9'	12 ^h 30 ^m	—23° 0'	12 ^h 31 ^m	+18° 44'
Jan. 1	28.456 ⁴¹⁴	41.85 ¹⁴⁸	34.20 ⁷⁷	47.35 ⁷⁸	44.959 ³⁵⁷	47.78 ²²⁶	40.119 ³⁵¹	77.07 ¹⁹⁵
11	28.870 ⁴⁰⁰	40.37 ⁹⁷	34.97 ⁷⁵	46.57 ¹³	45.316 ³⁴¹	50.04 ²³⁹	40.470 ³³⁹	75.12 ¹⁶³
21	29.270 ³⁷³	39.40 ⁴²	35.72 ⁷¹	46.44 ⁵¹	45.657 ³¹⁵	52.43 ²⁴⁵	40.809 ³¹⁵	73.49 ¹²⁶
31	29.643 ³³⁷	38.98 ¹¹	36.43 ⁶⁴	46.95 ¹¹³	45.972 ²⁸²	54.88 ²⁴⁴	41.124 ²⁸⁴	72.23 ⁸⁷
Feb. 10	29.980 ²⁹¹	39.09 ⁶²	37.07 ⁵⁵	48.08 ¹⁶⁸	46.254 ²⁴³	57.32 ²³⁷	41.408 ²⁴⁶	71.36 ⁴⁸
20	30.271 ²³⁹	39.71 ¹⁰⁸	37.62 ⁴⁴	49.76 ²¹⁵	46.497 ²⁰²	59.69 ²²⁵	41.654 ²⁰⁵	70.88 ¹⁰
März 2	30.510 ¹⁸⁵	40.79 ¹⁴⁸	38.06 ³³	51.91 ²⁵³	46.699 ¹⁶⁰	61.94 ²⁰⁸	41.859 ¹⁶¹	70.78 ²⁶
12	30.695 ¹²⁹	42.27 ¹⁷⁹	38.39 ²¹	54.44 ²⁷⁸	46.859 ¹²⁰	64.02 ¹⁹⁰	42.020 ¹¹⁹	71.04 ⁵⁷
22	30.824 ⁷⁵	44.06 ²⁰²	38.60 ⁹	57.22 ²⁹²	46.979 ⁸¹	65.92 ¹⁶⁹	42.139 ⁷⁸	71.61 ⁸³
31	30.899 ²⁶	46.08 ²¹⁴	38.69 ³	60.14 ²⁹³	47.060 ⁴⁷	67.61 ¹⁴⁶	42.217 ⁴¹	72.44 ¹⁰¹
Apr. 10	30.925 ¹⁹	48.22 ²¹⁷	38.66 ¹⁴	63.07 ²⁸⁴	47.107 ¹⁵	69.07 ¹²³	42.258 ⁸	73.45 ¹¹⁵
20	30.906 ⁵⁸	50.39 ²¹¹	38.52 ²⁴	65.91 ²⁶³	47.122 ¹³	70.30 ¹⁰⁰	42.266 ²⁰	74.60 ¹²¹
30	30.848 ⁹¹	52.50 ¹⁹⁷	38.28 ³²	68.54 ²³²	47.109 ³⁶	71.30 ⁷⁶	42.246 ⁴⁴	75.81 ¹²²
Mai 10	30.757 ¹¹⁷	54.47 ¹⁷⁶	37.96 ³⁹	70.86 ¹⁹⁵	47.073 ⁵⁶	72.06 ⁵³	42.202 ⁶³	77.03 ¹¹⁸
20	30.640 ¹³⁸	56.23 ¹⁴⁸	37.57 ⁴⁴	72.81 ¹⁵⁰	47.017 ⁷³	72.59 ²⁹	42.139 ⁷⁹	78.21 ¹⁰⁸
30	30.502 ¹⁵²	57.71 ¹¹⁷	37.13 ⁴⁸	74.31 ¹⁰¹	46.944 ⁸⁷	72.88 ⁶	42.060 ⁹⁰	79.29 ⁹⁵
Juni 9	30.350 ¹⁶²	58.88 ⁸²	36.65 ⁴⁹	75.32 ⁴⁹	46.857 ⁹⁸	72.94 ¹⁵	41.970 ⁹⁸	80.24 ⁸⁰
19	30.188 ¹⁶⁶	59.70 ⁴⁴	36.16 ⁵¹	75.81 ⁴	46.759 ¹⁰⁶	72.79 ³⁷	41.872 ¹⁰³	81.04 ⁶¹
29	30.022 ¹⁶⁶	60.14 ⁵	35.65 ⁵⁰	75.77 ⁵⁷	46.653 ¹¹⁰	72.42 ⁵⁷	41.769 ¹⁰⁴	81.65 ⁴¹
Juli 9	29.856 ¹⁶⁰	60.19 ³⁴	35.15 ⁴⁸	75.20 ¹⁰⁹	46.543 ¹¹⁰	71.85 ⁷⁵	41.665 ¹⁰³	82.06 ²⁰
19	29.696 ¹⁵¹	59.85 ⁷³	34.67 ⁴⁵	74.11 ¹⁵⁹	46.433 ¹⁰⁸	71.10 ⁹¹	41.562 ⁹⁸	82.26 ³
29	29.545 ¹³⁷	59.12 ¹¹²	34.22 ⁴¹	72.52 ²⁰⁶	46.325 ⁹⁹	70.19 ¹⁰³	41.464 ⁸⁹	82.23 ²⁶
Aug. 8	29.408 ¹¹⁷	58.00 ¹⁴⁸	33.81 ³⁵	70.46 ²⁴⁸	46.226 ⁸⁵	69.16 ¹¹²	41.375 ⁷⁶	81.97 ⁵¹
18	29.291 ⁹²	56.52 ¹⁸²	33.46 ²⁹	67.98 ²⁸⁶	46.141 ⁶⁶	68.04 ¹¹⁶	41.299 ⁵⁸	81.46 ⁷⁶
28	29.199 ⁶²	54.70 ²¹⁴	33.17 ²²	65.12 ³¹⁹	46.075 ⁴⁰	66.88 ¹¹⁴	41.241 ³⁵	80.70 ¹⁰⁰
Sept. 7	29.137 ²⁶	52.56 ²⁴⁴	32.95 ¹⁴	61.93 ³⁴⁵	46.035 ⁹	65.74 ¹⁰⁸	41.206 ⁷	79.70 ¹²⁶
17	29.111 ¹⁴	50.12 ²⁶⁹	32.81 ⁴	58.48 ³⁶⁶	46.026 ²⁸	64.66 ⁹⁴	41.199 ²⁷	78.44 ¹⁵⁰
27	29.125 ⁶⁰	47.43 ²⁹⁰	32.77 ⁵	54.82 ³⁷⁹	46.054 ⁷¹	63.72 ⁷⁴	41.226 ⁶⁴	76.94 ¹⁷⁵
Okt. 7	29.185 ¹¹⁰	44.53 ³⁰⁷	32.82 ¹⁵	51.03 ³⁸⁴	46.125 ¹¹⁶	62.98 ⁹⁰	41.290 ¹⁰⁶	75.19 ¹⁹⁸
17	29.295 ¹⁶³	41.46 ³¹⁷	32.97 ²⁵	47.19 ³⁸²	46.241 ¹⁶⁵	62.48 ¹⁹	41.396 ¹⁵⁰	73.21 ²¹⁷
27	29.458 ²¹⁵	38.29 ³²²	33.22 ³⁶	43.37 ³⁷¹	46.406 ²¹²	62.29 ¹⁵	41.546 ¹⁹⁵	71.04 ²³⁵
Nov. 6	29.673 ²⁶⁷	35.07 ³¹⁸	33.58 ⁴⁶	39.66 ³⁴⁹	46.618 ²⁵⁷	62.44 ⁵³	41.741 ²³⁸	68.69 ²⁴⁸
16	29.940 ³¹⁴	31.89 ³⁰⁶	34.04 ⁵⁵	36.17 ³²⁰	46.875 ²⁹⁶	62.97 ⁹⁰	41.979 ²⁷⁷	66.21 ²⁵⁴
26	30.254 ³⁵⁶	28.83 ²⁸⁷	34.59 ⁶³	32.97 ²⁸¹	47.171 ³²⁸	63.87 ¹²⁷	42.256 ³¹¹	63.67 ²⁵⁵
Dez. 6	30.610 ³⁸⁷	25.96 ²⁵⁸	35.22 ⁷⁰	30.16 ²³³	47.499 ³⁵²	65.14 ¹⁶¹	42.567 ³³⁵	61.12 ²⁴⁷
16	30.997 ⁴⁰⁷	23.38 ²²²	35.92 ⁷⁵	27.83 ¹⁷⁹	47.851 ³⁶³	66.75 ¹⁹¹	42.902 ³⁵¹	58.65 ²³⁴
26	31.404 ⁴¹⁴	21.16 ¹⁷⁸	36.67 ⁷⁷	26.04 ¹¹⁸	48.214 ³⁶⁴	68.66 ²¹⁴	43.253 ³⁵⁵	56.31 ²¹¹
36	31.818	19.38	37.44	24.86	48.578	70.80	43.608	54.20
Mittl. Ort	28.237	55.49	32.89	66.05	45.477	55.46	40.222	84.01
sec δ , tg δ	1.340	+0.892	2.948	+2.773	1.087	—0.425	1.056	+0.340
a , a'	+2.9	—19.9	+2.6	—19.9	+3.1	—19.9	+3.0	—19.9
b , b'	—0.06	+0.13	—0.18	+0.13	+0.03	+0.13	—0.02	+0.14

Tag	474) α Muscae		476) γ Centauri		478) γ Ursae maj.		481) β Crucis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	12 ^b 33 ^m	—68° 45'	12 ^b 37 ^m	—48° 34'	12 ^b 38 ^m	+63° 4'	12 ^b 43 ^m	—59° 18'
Jan. I	1.29 ⁷³	1.28 ¹⁷²	41.092 ⁴⁵³	36.97 ²⁰⁰	34.26 ⁶¹	71.81 ¹⁰⁷	39.157 ⁵⁵⁶	25.49 ¹⁷⁶
II	2.02 ⁶⁹	3.00 ²²⁴	41.545 ⁴³²	38.97 ²³⁸	34.87 ⁵⁹	70.74 ⁴⁴	39.713 ⁵³²	27.25 ²²³
2I	2.71 ⁶³	5.24 ²⁶⁸	41.977 ³⁹⁹	41.35 ²⁶⁹	35.46 ⁵⁶	70.30 ²⁰	40.245 ⁴⁹⁴	29.48 ²⁶²
3I	3.34 ⁵⁶	7.92 ³⁰⁶	42.376 ³⁵⁸	44.04 ²⁹²	36.02 ⁵¹	70.50 ⁸²	40.739 ⁴⁴⁴	32.10 ²⁹⁵
Feb. 10	3.90 ⁴⁸	10.98 ³³⁵	42.734 ³⁰⁹	46.96 ³⁰⁸	36.53 ⁴⁵	71.32 ¹³⁸	41.183 ³⁸⁶	35.05 ³¹⁹
20	4.38 ⁴⁰	14.33 ³⁵⁵	43.043 ²⁵⁸	50.04 ³¹⁵	36.98 ³⁶	72.70 ¹⁸⁷	41.569 ³²²	38.24 ³³⁵
März 2	4.78 ³⁰	17.88 ³⁶⁷	43.301 ²⁰⁵	53.19 ³¹⁵	37.34 ²⁸	74.57 ²²⁸	41.891 ²⁵⁷	41.59 ³⁴³
12	5.08 ²¹	21.55 ³⁷⁰	43.506 ¹⁵¹	56.34 ³⁰⁹	37.62 ¹⁹	76.85 ²⁵⁸	42.148 ¹⁹⁰	45.02 ³⁴³
22	5.29 ¹¹	25.25 ³⁶⁶	43.657 ¹⁰¹	59.43 ²⁹⁸	37.81 ¹⁰	79.43 ²⁷⁶	42.338 ¹²⁵	48.45 ³³⁷
3I*)	5.40 ³	28.91 ³⁵⁴	43.758 ⁵³	62.41 ²⁸⁰	37.91 ¹	82.19 ²⁸²	42.463 ⁶⁴	51.82 ³²⁴
April 10	5.43 ⁵	32.45 ³³⁵	43.811 ⁸	65.21 ²⁵⁸	37.92 ⁷	85.01 ²⁷⁷	42.527 ⁵	55.06 ³⁰⁵
20	5.38 ¹³	35.80 ³¹¹	43.819 ³²	67.79 ²³²	37.85 ¹⁴	87.78 ²⁶²	42.532 ⁵⁰	58.11 ²⁸⁰
30	5.25 ²⁰	38.91 ²⁷⁹	43.787 ⁶⁸	70.11 ²⁰²	37.71 ²¹	90.40 ²³⁶	42.482 ¹⁰⁰	60.91 ²⁵¹
Mai 10	5.05 ²⁷	41.70 ²⁴²	43.719 ¹⁰⁰	72.13 ¹⁶⁹	37.50 ²⁵	92.76 ²⁰⁴	42.382 ¹⁴⁶	63.42 ²¹⁶
20	4.78 ³³	44.12 ²⁰¹	43.619 ¹²⁹	73.82 ¹³⁴	37.25 ²⁹	94.80 ¹⁶³	42.236 ¹⁸⁶	65.58 ¹⁷⁸
30	4.45 ³⁷	46.13 ¹⁵⁶	43.490 ¹⁵⁴	75.16 ⁹⁵	36.96 ³³	96.43 ¹¹⁸	42.050 ²²²	67.36 ¹³⁷
Juni 9	4.08 ⁴¹	47.69 ¹⁰⁷	43.336 ¹⁷³	76.11 ⁵⁵	36.63 ³⁴	97.61 ⁷¹	41.828 ²⁵⁰	68.73 ⁹²
19	3.67 ⁴⁴	48.76 ⁵⁷	43.163 ¹⁸⁷	76.66 ¹⁵	36.29 ³⁶	98.32 ²⁰	41.578 ²⁷³	69.65 ⁴⁶
29	3.23 ⁴⁶	49.33 ⁴	42.976 ¹⁹⁷	76.81 ²⁶	35.93 ³⁵	98.52 ³²	41.305 ²⁸⁶	70.11 ¹
Juli 9	2.77 ⁴⁵	49.37 ⁴⁷	42.779 ²⁰⁰	76.55 ⁶⁵	35.58 ³⁴	98.20 ⁸¹	41.019 ²⁹²	70.10 ⁴⁷
19	2.32 ⁴⁴	48.90 ⁹⁷	42.579 ¹⁹⁶	75.90 ¹⁰³	35.24 ³²	97.39 ¹³⁰	40.727 ²⁸⁷	69.63 ⁹³
29	1.88 ⁴¹	47.93 ¹⁴⁴	42.383 ¹⁸⁴	74.87 ¹³⁷	34.92 ²⁹	96.09 ¹⁷⁷	40.440 ²⁷²	68.70 ¹³⁵
Aug. 8	1.47 ³⁷	46.49 ¹⁸⁶	42.199 ¹⁶³	73.50 ¹⁶⁷	34.63 ²⁶	94.32 ²²⁰	40.168 ²⁴⁴	67.35 ¹⁷²
18	1.10 ³¹	44.63 ²²²	42.036 ¹³⁵	71.83 ¹⁹¹	34.37 ²¹	92.12 ²⁵⁹	39.924 ²⁰⁶	65.63 ²⁰⁵
28	0.79 ²²	42.41 ²⁵¹	41.901 ⁹⁶	69.92 ²⁰⁷	34.16 ¹⁶	89.53 ²⁹⁴	39.718 ¹⁵⁵	63.58 ²²⁹
Sept. 7	0.57 ¹⁴	39.90 ²⁶⁹	41.805 ⁴⁹	67.85 ²¹⁶	34.00 ¹¹	86.59 ³²³	39.563 ⁹⁴	61.29 ²⁴⁵
17	0.43 ³	37.21 ²⁷⁸	41.756 ⁵	65.69 ²¹⁵	33.89 ⁴	83.36 ³⁴⁶	39.469 ²²	58.84 ²⁵¹
27	0.40 ⁸	34.43 ²⁷⁵	41.761 ⁶⁵	63.54 ²⁰⁶	33.85 ⁴	79.90 ³⁶⁴	39.447 ⁵⁶	56.33 ²⁴⁷
Okt. 7	0.48 ¹⁹	31.68 ²⁶¹	41.826 ¹³⁰	61.48 ¹⁸⁶	33.89 ¹¹	76.26 ³⁷³	39.503 ¹⁴⁰	53.86 ²³³
17	0.67 ³¹	29.07 ²³⁶	41.956 ¹⁹⁷	59.62 ¹⁵⁸	34.00 ¹⁹	72.53 ³⁷⁶	39.643 ²²⁶	51.53 ²⁰⁷
27	0.98 ⁴³	26.71 ²⁰⁰	42.153 ²⁶¹	58.04 ¹²¹	34.19 ²⁸	68.77 ³⁷⁰	39.869 ³⁰⁸	49.46 ¹⁷²
Nov. 6	1.41 ⁵³	24.71 ¹⁵⁵	42.414 ³²²	56.83 ⁷⁸	34.47 ³⁵	65.07 ³⁵⁴	40.177 ³⁸⁵	47.74 ¹²⁹
16	1.94 ⁶¹	23.16 ¹⁰³	42.736 ³⁷⁴	56.05 ²⁹	34.82 ⁴³	61.53 ³²⁹	40.562 ⁴⁵²	46.45 ⁷⁹
26	2.55 ⁶⁸	22.13 ⁴⁴	43.110 ⁴¹⁶	55.76 ²³	35.25 ⁵⁰	58.24 ²⁹⁵	41.014 ⁵⁰⁶	45.66 ²⁵
Dez. 6	3.23 ⁷²	21.69 ¹⁶	43.526 ⁴⁴⁶	55.99 ⁷⁵	35.75 ⁵⁴	55.29 ²⁵³	41.520 ⁵⁴⁴	45.41 ³³
16	3.95 ⁷⁵	21.85 ⁷⁸	43.972 ⁴⁶¹	56.74 ¹²⁶	36.29 ⁵⁸	52.76 ²⁰³	42.064 ⁵⁶⁴	45.74 ⁸⁹
26	4.70 ⁷⁴	22.63 ¹³⁷	44.433 ⁴⁶²	58.00 ¹⁷⁴	36.87 ⁶⁰	50.73 ¹⁴⁴	42.628 ⁵⁶⁶	46.63 ¹⁴⁴
36	5.44	24.00	44.895	59.74	37.47	49.29	43.194	48.07
Mittl. Ort	2.98	20.70	42.052	52.08	33.52	89.96	40.498	42.84
sec δ , τ g δ	2.760	—2.572	1.511	—1.134	2.210	+1.970	1.959	—1.685
a, a'	+3.6	—19.8	+3.3	—19.8	+2.6	—19.8	+3.5	—19.7
b, b'	+0.17	+0.14	+0.07	+0.16	—0.13	+0.17	+0.11	+0.19

*) Bei Stern 476), 478) und 481) lies April 1

Tag	482) α Centauri		483) ϵ Ursae maj.		484) δ Virginis		486) δ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	12 ^h 49 ^m	—39° 48'	12 ^h 50 ^m	+56° 19'	12 ^h 52 ^m	+3° 45'	12 ^h 52 ^m	+65° 48'
Jan. I	35.511 ⁴¹¹	2.56 ²⁰⁰	60.328 ⁵¹⁶	44.98 ¹³⁸	7.236 ³⁴⁰	76.57 ²¹⁶	44.76 ⁶⁶	25.98 ¹¹⁸
II	35.922 ³⁹⁵	4.56 ²³⁰	60.844 ⁵⁰⁷	43.60 ⁷⁸	7.576 ³³⁰	74.41 ²⁰⁰	45.42 ⁶⁴	24.80 ⁵⁵
21	36.317 ³⁶⁹	6.86 ²⁵⁴	61.351 ⁴⁸³	42.82 ¹⁶	7.906 ³¹¹	72.41 ¹⁷⁸	46.06 ⁶²	24.25 ¹⁰
31	36.686 ³³⁴	9.40 ²⁷¹	61.834 ⁴⁴³	42.66 ⁴⁵	8.217 ²⁸⁴	70.63 ¹⁵³	46.68 ⁵⁷	24.35 ⁷⁴
Feb. 10	37.020 ²⁹³	12.11 ²⁸⁰	62.277 ³⁹⁰	43.11 ¹⁰³	8.501 ²⁵⁰	69.10 ¹²³	47.25 ⁵⁰	25.09 ¹³³
20	37.313 ²⁴⁹	14.91 ²⁸³	62.667 ³²⁸	44.14 ¹⁵⁵	8.751 ²¹³	67.87 ⁹²	47.75 ⁴²	26.42 ¹⁸⁵
März 2	37.562 ²⁰²	17.74 ²⁷⁸	62.995 ²⁵⁹	45.69 ¹⁹⁹	8.964 ¹⁷⁴	66.95 ⁶²	48.17 ³³	28.27 ²²⁷
12	37.764 ¹⁵⁷	20.52 ²⁶⁹	63.254 ¹⁸⁷	47.68 ²³²	9.138 ¹³⁵	66.33 ³²	48.50 ²³	30.54 ²⁶⁰
22	37.921 ¹¹³	23.21 ²⁵⁶	63.441 ¹¹³	50.00 ²⁵⁵	9.273 ⁹⁹	66.01 ⁶	48.73 ¹³	33.14 ²⁸¹
Apr. I	38.034 ⁷¹	25.77 ²³⁸	63.554 ⁴⁴	52.55 ²⁶⁷	9.372 ⁶⁴	65.95 ¹⁶	48.86 ⁴	35.95 ²⁹⁰
10	38.105 ³³	28.15 ²¹⁷	63.598 ²¹	55.22 ²⁶⁸	9.436 ³⁴	66.11 ³⁵	48.90 ⁶	38.85 ²⁸⁷
20	38.138 ²	30.32 ¹⁹²	63.577 ⁸⁰	57.90 ²⁵⁸	9.470 ⁷	66.46 ⁴⁹	48.84 ¹⁴	41.72 ²⁷³
30	38.136 ³³	32.24 ¹⁶⁶	63.497 ¹³²	60.48 ²³⁹	9.477 ¹⁷	66.95 ⁶⁰	48.70 ²¹	44.45 ²⁴⁹
Mai 10	38.103 ⁶²	33.90 ¹³⁶	63.365 ¹⁷⁴	62.87 ²¹¹	9.460 ³⁸	67.55 ⁶⁷	48.49 ²⁷	46.94 ²¹⁷
20	38.041 ⁸⁷	35.26 ¹⁰⁶	63.191 ²⁰⁹	64.98 ¹⁷⁶	9.422 ⁵⁴	68.22 ⁷⁰	48.22 ³²	49.11 ¹⁷⁷
30	37.954 ¹⁰⁹	36.32 ⁷³	62.982 ²³⁶	66.74 ¹³⁷	9.368 ⁶⁹	68.92 ⁷⁰	47.90 ³⁶	50.88 ¹³³
Juni 9	37.845 ¹²⁷	37.05 ⁴⁰	62.746 ²⁵⁴	68.11 ⁹²	9.299 ⁸⁰	69.62 ⁶⁷	47.54 ³⁹	52.21 ⁸⁴
19	37.718 ¹⁴¹	37.45 ⁷	62.492 ²⁶⁵	69.03 ⁴⁶	9.219 ⁸⁹	70.29 ⁶³	47.15 ⁴⁰	53.05 ³³
29	37.577 ¹⁵²	37.52 ²⁸	62.227 ²⁶⁹	69.49 ²	9.130 ⁹⁵	70.92 ⁵⁷	46.75 ⁴¹	53.38 ¹⁹
Juli 9	37.425 ¹⁵⁷	37.24 ⁶¹	61.958 ²⁶⁵	69.47 ⁵⁰	9.035 ⁹⁸	71.49 ⁴⁹	46.34 ⁴⁰	53.19 ⁷¹
19	37.268 ¹⁵⁶	36.63 ⁹¹	61.693 ²⁵⁴	68.97 ⁹⁸	8.937 ⁹⁸	71.98 ³⁸	45.94 ³⁸	52.48 ¹²²
29	37.112 ¹⁵⁰	35.72 ¹¹⁹	61.439 ²³⁷	67.99 ¹⁴⁴	8.839 ⁹³	72.36 ²⁷	45.56 ³⁶	51.26 ¹⁶⁹
Aug. 8	36.962 ¹³⁵	34.53 ¹⁴³	61.202 ²¹²	66.55 ¹⁸⁷	8.746 ⁸³	72.63 ¹⁴	45.20 ³²	49.57 ²¹⁵
18	36.827 ¹¹³	33.10 ¹⁶¹	60.990 ¹⁸⁰	64.68 ²²⁷	8.663 ⁶⁹	72.77 ³	44.88 ²⁸	47.42 ²⁵⁶
28	36.714 ⁸³	31.49 ¹⁷⁴	60.810 ¹⁴²	62.41 ²⁶³	8.594 ⁴⁹	72.74 ²⁰	44.60 ²²	44.86 ²⁹²
Sept. 7	36.631 ⁴⁶	29.75 ¹⁷⁹	60.668 ⁹⁵	59.78 ²⁹⁵	8.545 ²⁴	72.54 ⁴⁰	44.38 ¹⁶	41.94 ³²⁴
17	36.585 ¹	27.96 ¹⁷⁶	60.573 ⁴²	56.83 ³²²	8.521 ⁸	72.14 ⁶²	44.22 ⁸	38.70 ³⁴⁹
27	36.584 ⁵¹	26.20 ¹⁶⁵	60.531 ¹⁶	53.61 ³⁴³	8.529 ⁴⁵	71.52 ⁸⁵	44.14 ¹	35.21 ³⁶⁸
Okt. 7	36.635 ¹⁰⁷	24.55 ¹⁴⁶	60.547 ⁸¹	50.18 ³⁵⁸	8.574 ⁸⁵	70.67 ¹¹⁰	44.13 ¹	31.53 ³⁷⁹
17	36.742 ¹⁶⁵	23.09 ¹¹⁸	60.628 ¹⁵⁰	46.60 ³⁶⁶	8.659 ¹²⁹	69.57 ¹³⁵	44.20 ¹⁷	27.74 ³⁸³
27	36.907 ²²²	21.91 ⁸⁴	60.778 ²¹⁹	42.94 ³⁶⁴	8.788 ¹⁷⁴	68.22 ¹⁶⁰	44.37 ²⁶	23.91 ³⁷⁸
Nov. 6	37.129 ²⁷⁸	21.07 ⁴⁴	60.997 ²⁸⁸	39.30 ³⁵⁶	8.962 ²¹⁸	66.62 ¹⁸²	44.63 ³⁴	20.13 ³⁶⁴
16	37.407 ³²⁶	20.63 ⁰	61.285 ³⁵²	35.74 ³³⁷	9.180 ²⁵⁸	64.80 ²⁰¹	44.97 ⁴³	16.49 ³⁴¹
26	37.733 ³⁶⁶	20.63 ⁴⁷	61.637 ⁴¹¹	32.37 ³⁰⁹	9.438 ²⁹²	62.79 ²¹⁶	45.40 ⁵¹	13.08 ³⁰⁷
Dez. 6	38.099 ³⁹⁵	21.10 ⁹²	62.048 ⁴⁵⁷	29.28 ²⁷²	9.730 ³¹⁹	60.63 ²²⁵	45.91 ⁵⁷	10.01 ²⁶⁵
16	38.494 ⁴¹³	22.02 ¹³⁷	62.505 ⁴⁹¹	26.56 ²²⁶	10.049 ³³⁶	58.38 ²²⁸	46.48 ⁶²	7.36 ²¹⁵
26	38.907 ⁴¹⁷	23.39 ¹⁷⁷	62.996 ⁵¹¹	24.30 ¹⁷⁴	10.385 ³⁴²	56.10 ²²²	47.10 ⁶⁴	5.21 ¹⁵⁷
36	39.324	25.16	63.507	22.56	10.727	53.88	47.74	3.64
Mittl. Ort	36.397	14.83	59.971	62.48	7.613	79.11	44.08	44.96
sec δ , tg δ	1.302	—0.833	1.804	+1.501	1.002	+0.066	2.441	+2.226
a, a'	+3.3	—19.6	+2.6	—19.6	+3.1	—19.5	+2.4	—19.5
b, b'	+0.05	+0.21	—0.10	+0.22	0.00	+0.23	—0.14	+0.23

Tag	485) 12 Can. ven. sq.		488) ε Virginis		490) θ Virginis		492) 43 Comae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	12 ^h 52 ^m	+38° 40'	12 ^h 58 ^m	+11° 19'	13 ^h 6 ^m	—5° 10'	13 ^h 8 ^m	+28° 13'
Jan. 1	48.205 ⁴⁰⁰	72.64 ¹⁷²	44.184 ³⁴⁴	41.25 ²¹³	21.962 ³⁴³	15.90 ²¹⁶	39.078 ³⁶⁶	27.72 ²⁰⁰
11	48.605 ³⁹²	70.92 ¹²⁶	44.528 ³³⁶	39.12 ¹⁸⁹	22.305 ³³⁵	18.06 ²¹¹	39.444 ³⁶¹	25.72 ¹⁶⁰
21	48.997 ³⁷²	69.66 ⁷⁴	44.864 ³¹⁸	37.23 ¹⁵⁹	22.640 ³¹⁷	20.17 ¹⁹⁹	39.805 ³⁴⁴	24.12 ¹¹⁵
31	49.369 ³⁴¹	68.92 ²⁰	45.182 ²⁹¹	35.64 ¹²⁷	22.957 ²⁹²	22.16 ¹⁸²	40.149 ³¹⁹	22.97 ⁶⁸
Feb. 10	49.710 ³⁰¹	68.72 ³³	45.473 ²⁵⁸	34.37 ⁹⁰	23.249 ²⁶⁰	23.98 ¹⁶⁰	40.468 ²⁸⁵	22.29 ²⁰
20	50.011 ²⁵⁴	69.05 ⁸¹	45.731 ²²²	33.47 ⁵⁵	23.509 ²²⁵	25.58 ¹³⁶	40.753 ²⁴⁶	22.09 ²⁷
März 2	50.265 ²⁰⁵	69.86 ¹²⁴	45.953 ¹⁸²	32.92 ²⁰	23.734 ¹⁸⁸	26.94 ¹¹⁰	40.999 ²⁰³	22.36 ⁶⁸
12	50.470 ¹⁵⁴	71.10 ¹⁵⁸	46.135 ¹⁴³	32.72 ¹¹	23.922 ¹⁵¹	28.04 ⁸⁴	41.202 ¹⁶⁰	23.04 ¹⁰⁶
22	50.624 ¹⁰³	72.68 ¹⁸⁶	46.278 ¹⁰⁵	32.83 ³⁹	24.073 ¹¹⁶	28.88 ⁵⁹	41.362 ¹¹⁶	24.10 ¹³⁵
Apr. 1	50.727 ⁵⁶	74.54 ²⁰⁴	46.383 ⁷⁰	33.22 ⁶²	24.189 ⁸²	29.47 ³⁷	41.478 ⁷⁶	25.45 ¹⁵⁸
10	50.783 ¹²	76.58 ²¹²	46.453 ³⁸	33.84 ⁸⁰	24.271 ⁵¹	29.84 ¹⁶	41.554 ³⁷	27.03 ¹⁷²
20	50.795 ²⁶	78.70 ²¹¹	46.491 ⁹	34.64 ⁹¹	24.322 ²³	30.00 ¹	41.591 ³	28.75 ¹⁷⁸
30	50.769 ⁶¹	80.81 ²⁰²	46.500 ¹⁶	35.55 ⁹⁸	24.345 ¹	29.99 ¹⁵	41.594 ²⁶	30.53 ¹⁷⁶
Mai 10	50.708 ⁸⁹	82.83 ¹⁸⁵	46.484 ³⁷	36.53 ¹⁰⁰	24.344 ²²	29.84 ²⁸	41.568 ⁵³	32.29 ¹⁶⁹
20	50.619 ¹¹²	84.68 ¹⁶²	46.447 ⁵⁵	37.53 ⁹⁸	24.322 ⁴²	29.56 ³⁸	41.515 ⁷⁵	33.98 ¹⁵⁴
30	50.507 ¹³⁰	86.30 ¹³⁴	46.392 ⁷¹	38.51 ⁹¹	24.280 ⁵⁹	29.18 ⁴⁴	41.440 ⁹³	35.52 ¹³⁵
Juni 9	50.377 ¹⁴³	87.64 ¹⁰²	46.321 ⁸³	39.42 ⁸³	24.221 ⁷²	28.74 ⁵⁰	41.347 ¹⁰⁸	36.87 ¹¹¹
19	50.234 ¹⁵³	88.66 ⁶⁶	46.238 ⁹³	40.25 ⁷¹	24.149 ⁸⁴	28.24 ⁵⁴	41.239 ¹²⁰	37.98 ⁸⁵
29	50.081 ¹⁵⁷	89.32 ³⁰	46.145 ⁹⁹	40.96 ⁵⁷	24.065 ⁹³	27.70 ⁵⁵	41.119 ¹²⁷	38.83 ⁵⁶
Juli 9	49.924 ¹⁵⁸	89.62 ⁸	46.046 ¹⁰³	41.53 ⁴¹	23.972 ⁹⁹	27.15 ⁵⁵	40.992 ¹³²	39.39 ²⁵
19	49.766 ¹⁵²	89.54 ⁴⁷	45.943 ¹⁰³	41.94 ²⁴	23.873 ¹⁰¹	26.60 ⁵⁴	40.860 ¹³¹	39.64 ⁷
29	49.614 ¹⁴³	89.07 ⁸⁵	45.840 ⁹⁸	42.18 ⁶	23.772 ⁹⁸	26.06 ⁵⁰	40.729 ¹²⁷	39.57 ³⁸
Aug. 8	49.471 ¹²⁹	88.22 ¹²²	45.742 ⁹⁰	42.24 ¹⁴	23.674 ⁹²	25.56 ⁴⁴	40.602 ¹¹⁸	39.19 ⁷¹
18	49.342 ¹⁰⁹	87.00 ¹⁵⁸	45.652 ⁷⁶	42.10 ³⁵	23.582 ⁷⁹	25.12 ³⁶	40.484 ¹⁰³	38.48 ¹⁰³
28	49.233 ⁸²	85.42 ¹⁹¹	45.576 ⁵⁷	41.75 ⁵⁷	23.503 ⁶¹	24.76 ²⁴	40.381 ⁸²	37.45 ¹³⁴
Sept. 7	49.151 ⁵¹	83.51 ²²³	45.519 ³¹	41.18 ⁸¹	23.442 ³⁵	24.52 ⁹	40.299 ⁵⁵	36.11 ¹⁶⁴
17	49.100 ¹³	81.28 ²⁵¹	45.488 ⁰	40.37 ¹⁰⁵	23.407 ⁴	24.43 ¹⁰	40.244 ²²	34.47 ¹⁹³
27	49.087 ³¹	78.77 ²⁷⁵	45.488 ³⁶	39.32 ¹³⁰	23.403 ³²	24.53 ³⁰	40.222 ¹⁶	32.54 ²²⁰
Okt. 7	49.118 ⁷⁹	76.02 ²⁹⁵	45.524 ⁷⁷	38.02 ¹⁵⁴	23.435 ⁷⁴	24.83 ⁵⁴	40.238 ⁶⁰	30.34 ²⁴³
17	49.197 ¹³¹	73.07 ³¹⁰	45.601 ¹²²	36.48 ¹⁷⁸	23.509 ¹¹⁹	25.37 ⁸⁰	40.298 ¹⁰⁷	27.91 ²⁶³
27	49.328 ¹⁸³	69.97 ³¹⁹	45.723 ¹⁶⁷	34.70 ¹⁹⁹	23.628 ¹⁶⁶	26.17 ¹⁰⁸	40.405 ¹⁵⁷	25.28 ²⁷⁸
Nov. 6	49.511 ²³⁵	66.78 ³²⁰	45.890 ²¹¹	32.71 ²¹⁸	23.794 ²¹⁰	27.25 ¹³⁴	40.562 ²⁰⁵	22.50 ²⁸⁸
16	49.746 ²⁸⁴	63.58 ³¹⁴	46.101 ²⁵³	30.53 ²³²	24.004 ²⁵²	28.59 ¹⁵⁹	40.767 ²⁵²	19.62 ²⁹¹
26	50.030 ³²⁸	60.44 ²⁹⁹	46.354 ²⁸⁹	28.21 ²⁴⁰	24.256 ²⁸⁸	30.18 ¹⁸¹	41.019 ²⁹³	16.71 ²⁸⁶
Dez. 6	50.358 ³⁶²	57.45 ²⁷⁵	46.643 ³¹⁷	25.81 ²⁴²	24.544 ³¹⁶	31.99 ¹⁹⁸	41.312 ³²⁶	13.85 ²⁷³
16	50.720 ³⁸⁶	54.70 ²⁴⁴	46.960 ³³⁶	23.39 ²³⁷	24.860 ³³⁵	33.97 ²¹¹	41.638 ³⁵⁰	11.12 ²⁵²
26	51.106 ³⁹⁸	52.26 ²⁰³	47.296 ³⁴⁴	21.02 ²²⁴	25.195 ³⁴⁵	36.08 ²¹⁶	41.988 ³⁶³	8.60 ²²²
36	51.504	50.23	47.640	18.78	25.540	38.24	42.351	6.38
Mittl. Ort see δ, tg δ	48.204 1.281	86.33 +0.801	44.527 1.020	46.65 +0.200	22.511 1.004	16.02 -0.090	39.316 1.135	38.92 +0.537
a, a'	+2.8	-19.5	+3.0	-19.4	+3.1	-19.2	+2.9	-19.2
b, b'	-0.05	+ 0.23	-0.01	+ 0.25	+0.01	+ 0.29	-0.03	+ 0.30

Tag	495) γ Hydrae		496) ϵ Centauri		497) ζ Ursae maj. pr.		498) α Virginis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$13^h 15^m$	$-22^\circ 48'$	$13^h 16^m$	$-36^\circ 20'$	$13^h 21^m$	$+55^\circ 16'$	$13^h 21^m$	$-10^\circ 48'$
Jan. I	9.168 ³⁶⁴	23.30 ²⁰⁰	41.582 ⁴⁰¹	45.95 ¹⁷⁹	9.083 ⁴⁹⁵	48.83 ¹⁷⁵	32.600 ³⁴⁷	4.67 ²⁰⁹
II	9.532 ³⁵⁶	25.30 ²¹⁴	41.983 ³⁹²	47.74 ²⁰⁸	9.578 ⁴⁹⁷	47.08 ¹¹⁶	32.947 ³⁴¹	6.76 ²¹¹
21	9.888 ³³⁸	27.44 ²²²	42.375 ³⁷²	49.82 ²³⁰	10.075 ⁴⁸³	45.92 ⁵⁴	33.288 ³²⁶	8.87 ²⁰⁵
31	10.226 ³¹³	29.66 ²²³	42.747 ³⁴⁴	52.12 ²⁴⁵	10.558 ⁴⁵³	45.38 ¹⁰	33.614 ³⁰²	10.92 ¹⁹⁴
Feb. 10	10.539 ²⁸⁰	31.89 ²¹⁹	43.091 ³⁰⁹	54.57 ²⁵³	11.011 ⁴¹⁰	45.48 ⁷⁰	33.916 ²⁷³	12.86 ¹⁷⁸
20	10.819 ²⁴⁵	34.08 ²⁰⁹	43.400 ²⁷⁰	57.10 ²⁵⁶	11.421 ³⁵⁷	46.18 ¹²⁶	34.189 ²³⁹	14.64 ¹⁵⁹
März 2	11.064 ²⁰⁷	36.17 ¹⁹⁶	43.670 ²²⁹	59.66 ²⁵³	11.778 ²⁹⁵	47.44 ¹⁷⁶	34.428 ²⁰⁴	16.23 ¹³⁶
12	11.271 ¹⁶⁹	38.13 ¹⁸⁰	43.899 ¹⁸⁶	62.19 ²⁴⁵	12.073 ²²⁸	49.20 ²¹⁶	34.632 ¹⁶⁸	17.59 ¹¹⁴
22	11.440 ¹³²	39.93 ¹⁶¹	44.085 ¹⁴⁶	64.64 ²³²	12.301 ¹⁶⁰	51.36 ²⁴⁶	34.800 ¹³²	18.73 ⁹²
Apr. I	11.572 ⁹⁸	41.54 ¹⁴²	44.231 ¹⁰⁶	66.96 ²¹⁷	12.461 ⁹³	53.82 ²⁶⁵	34.932 ¹⁰⁰	19.65 ⁶⁹
II	11.670 ⁶⁵	42.96 ¹²²	44.337 ⁶⁹	69.13 ¹⁹⁹	12.554 ²⁹	56.47 ²⁷³	35.032 ⁶⁸	20.34 ⁴⁹
20	11.735 ³⁵	44.18 ¹⁰¹	44.406 ³⁴	71.12 ¹⁷⁸	12.583 ³²	59.20 ²⁷⁰	35.100 ⁴⁰	20.83 ³⁰
30	11.770 ⁷	45.19 ⁸¹	44.440 ³	72.90 ¹⁵⁵	12.551 ⁸⁶	61.90 ²⁵⁶	35.140 ¹⁴	21.13 ¹⁴
Mai 10	11.777 ¹⁷	46.00 ⁶¹	44.443 ²⁷	74.45 ¹³⁰	12.465 ¹³³	64.46 ²³⁵	35.154 ¹⁰	21.27 ⁰
20	11.760 ³⁹	46.61 ⁴¹	44.416 ⁵⁵	75.75 ¹⁰⁴	12.332 ¹⁷⁴	66.81 ²⁰⁵	35.144 ³¹	21.27 ¹⁴
30	11.721 ⁶⁰	47.02 ²¹	44.361 ⁷⁹	76.79 ⁷⁶	12.158 ²⁰⁷	68.86 ¹⁶⁸	35.113 ⁴⁹	21.13 ²⁴
Juni 9	11.661 ⁷⁷	47.23 ²	44.282 ¹⁰¹	77.55 ⁴⁷	11.951 ²³³	70.54 ¹²⁸	35.064 ⁶⁷	20.89 ³⁴
19	11.584 ⁹³	47.25 ¹⁷	44.181 ¹²⁰	78.02 ¹⁸	11.718 ²⁵³	71.82 ⁸²	34.997 ⁸¹	20.55 ⁴²
29	11.491 ¹⁰⁶	47.08 ³⁵	44.061 ¹³⁵	78.20 ¹²	11.465 ²⁶⁵	72.64 ³⁵	34.916 ⁹³	20.13 ⁴⁸
Juli 9	11.385 ¹¹³	46.73 ⁵³	43.926 ¹⁴⁵	78.08 ⁴¹	11.200 ²⁶⁹	72.99 ¹³	34.823 ¹⁰²	19.65 ⁵⁴
19	11.272 ¹¹⁸	46.20 ⁶⁷	43.781 ¹⁵⁰	77.67 ⁶⁹	10.931 ²⁶⁸	72.86 ⁶²	34.721 ¹⁰⁷	19.11 ⁵⁸
29	11.154 ¹¹⁸	45.53 ⁸¹	43.631 ¹⁴⁹	76.98 ⁹⁵	10.663 ²⁵⁸	72.24 ¹⁰⁹	34.614 ¹⁰⁷	18.53 ⁵⁹
Aug. 8	11.036 ¹¹¹	44.72 ⁹¹	43.482 ¹⁴¹	76.03 ¹¹⁷	10.405 ²⁴²	71.15 ¹⁵⁴	34.507 ¹⁰²	17.94 ⁵⁹
18	10.925 ⁹⁸	43.81 ⁹⁷	43.341 ¹²⁶	74.86 ¹³⁵	10.163 ²¹⁷	69.61 ¹⁹⁸	34.405 ⁹¹	17.35 ⁵⁴
28	10.827 ⁷⁷	42.84 ¹⁰⁰	43.215 ¹⁰²	73.51 ¹⁴⁸	9.946 ¹⁸⁴	67.63 ²³⁸	34.314 ⁷⁴	16.81 ⁴⁸
Sept. 7	10.750 ⁵¹	41.84 ⁹⁶	43.113 ⁶⁹	72.03 ¹⁵⁵	9.762 ¹⁴⁴	65.25 ²⁷⁴	34.240 ⁴⁹	16.33 ³⁷
17	10.699 ¹⁶	40.88 ⁸⁸	43.044 ²⁸	70.48 ¹⁵⁴	9.618 ⁹⁶	62.51 ³⁰⁶	34.191 ¹⁹	15.96 ²²
27	10.683 ²⁵	40.00 ⁷⁴	43.016 ¹⁸	68.94 ¹⁴⁶	9.522 ⁴⁰	59.45 ³³²	34.172 ¹⁸	15.74 ⁴
Okt. 7	10.708 ⁷⁰	39.26 ⁵⁴	43.034 ⁷²	67.48 ¹³⁰	9.482 ²³	56.13 ³⁵²	34.190 ⁶⁰	15.70 ¹⁸
17	10.778 ¹²⁰	38.72 ²⁹	43.106 ¹²⁸	66.18 ¹⁰⁸	9.505 ⁸⁹	52.61 ³⁶⁵	34.250 ¹⁰⁷	15.88 ⁴³
27	10.898 ¹⁷⁰	38.43 ¹	43.234 ¹⁸⁶	65.10 ⁷⁸	9.594 ¹⁶⁰	48.96 ³⁷¹	34.357 ¹⁵⁴	16.31 ⁷¹
Nov. 6	11.068 ²²⁰	38.44 ³⁴	43.420 ²⁴¹	64.32 ⁴²	9.754 ²³⁰	45.25 ³⁶⁷	34.511 ²⁰¹	17.02 ⁹⁹
16	11.288 ²⁶⁵	38.78 ⁶⁷	43.661 ²⁹²	63.90 ²	9.984 ²⁹⁹	41.58 ³⁵⁵	34.712 ²⁴⁵	18.01 ¹²⁷
26	11.553 ³⁰⁴	39.45 ¹⁰²	43.953 ³³⁶	63.88 ³⁹	10.283 ³⁶¹	38.03 ³³²	34.957 ²⁸³	19.28 ¹⁵³
Dez. 6	11.857 ³³⁴	40.47 ¹³⁵	44.289 ³⁷⁰	64.27 ⁸¹	10.644 ⁴¹⁵	34.71 ³⁰⁰	35.240 ³¹⁴	20.81 ¹⁷⁵
16	12.191 ³⁵⁶	41.82 ¹⁶³	44.659 ³⁹²	65.08 ¹²¹	11.059 ⁴⁵⁶	31.71 ²⁵⁹	35.554 ³³⁵	22.56 ¹⁹³
26	12.547 ³⁶⁵	43.45 ¹⁸⁷	45.051 ⁴⁰²	66.29 ¹⁵⁸	11.515 ⁴⁸⁴	29.12 ²¹⁰	35.889 ³⁴⁶	24.49 ²⁰⁴
36	12.912	45.32	45.453	67.87	11.999	27.02	36.235	26.53
Mittl. Ort	9.969	29.18	42.605	56.04	9.068	66.95	33.297	6.18
sec δ , tg δ	1.085	-0.421	1.242	-0.736	1.756	+1.443	1.018	-0.191
a, a'	+3.3	-19.0	+3.4	-18.9	+2.4	-18.8	+3.2	-18.8
b, b'	+0.03	+0.32	+0.05	+0.33	-0.09	+0.35	+0.01	+0.35

Tag	499) Grb 200I		500) 69 H. Urs. maj.		501) ♀ Virginis		502) 17 H. Can. ven.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	13 ^h 24 ^m	+72° 44'	13 ^h 25 ^m	+60° 17'	13 ^h 31 ^m	—0° 14'	13 ^h 31 ^m	+37° 31'
Jan. I	22.86 ⁸³	37.55 ¹⁴⁵	55.39 ⁵⁵	47.33 ¹⁷²	9.888 ³³⁹	40.12 ²¹⁵	42.743 ³⁸⁸	52.86 ²¹⁰
II	23.69 ⁸⁵	36.10 ⁸⁰	55.94 ⁵⁵	45.61 ¹¹⁰	10.227 ³³⁷	42.27 ²⁰⁵	43.131 ³⁹⁰	50.76 ¹⁶³
21	24.54 ⁸³	35.30 ¹²	56.49 ⁵⁴	44.51 ⁴⁶	10.564 ³²³	44.32 ¹⁸⁸	43.521 ³⁷⁸	49.13 ¹¹¹
31	25.37 ⁷⁹	35.18 ⁵⁴	57.03 ⁵¹	44.05 ¹⁹	10.887 ³⁰²	46.20 ¹⁶⁶	43.899 ³⁵⁶	48.02 ⁵⁵
Feb. 10	26.16 ⁷¹	35.72 ¹¹⁷	57.54 ⁴⁶	44.24 ⁸¹	11.189 ²⁷⁵	47.86 ¹⁴⁰	44.255 ³²⁵	47.47 ¹
20	26.87 ⁶²	36.89 ¹⁷⁴	58.00 ⁴⁰	45.05 ¹³⁹	11.464 ²⁴³	49.26 ¹¹²	44.580 ²⁸⁶	47.46 ⁵¹
März 2	27.49 ⁵¹	38.63 ²²²	58.40 ³⁴	46.44 ¹⁸⁹	11.707 ²⁰⁹	50.38 ⁸³	44.866 ²⁴³	47.97 ¹⁰⁰
12	28.00 ³⁸	40.85 ²⁶⁰	58.74 ²⁶	48.33 ²³⁰	11.916 ¹⁷³	51.21 ⁵⁵	45.109 ¹⁹⁶	48.97 ¹⁴¹
22	28.38 ²⁵	43.45 ²⁸⁶	59.00 ¹⁸	50.63 ²⁵⁹	12.089 ¹³⁸	51.76 ²⁸	45.305 ¹⁴⁹	50.38 ¹⁷⁵
Apr. I	28.63 ¹²	46.31 ³⁰¹	59.18 ¹⁰	53.22 ²⁷⁹	12.227 ¹⁰⁵	52.04 ⁴	45.454 ¹⁰³	52.13 ¹⁹⁹
II	28.75 ¹³	49.32 ³⁰⁴	59.28 ¹⁴	56.01 ²⁸⁵	12.332 ⁷⁴	52.08 ¹⁷	45.557 ¹⁵	54.12 ²¹⁵
20	28.73 ¹⁴	52.36 ²⁹³	59.31 ⁴	58.86 ²⁸²	12.406 ⁴⁵	51.91 ³³	45.616 ¹⁸	56.27 ²²¹
30	28.59 ²⁵	55.29 ²⁷⁴	59.27 ¹¹	61.68 ²⁶⁷	12.451 ¹⁹	51.58 ⁴⁵	45.634 ¹⁸	58.48 ²¹⁸
Mai 10	28.34 ³⁶	58.03 ²⁴⁴	59.16 ¹⁷	64.35 ²⁴³	12.470 ⁵	51.13 ⁵⁵	45.616 ⁵²	60.66 ²⁰⁶
20	27.98 ⁴⁴	60.47 ²⁰⁷	58.99 ²²	66.78 ²¹²	12.465 ²⁶	50.58 ⁶²	45.564 ⁸⁰	62.72 ¹⁸⁹
30	27.54 ⁵⁰	62.54 ¹⁶³	58.77 ²⁵	68.90 ¹⁷³	12.439 ⁴⁶	49.96 ⁶⁴	45.484 ¹⁰⁵	64.61 ¹⁶⁴
Juni 9	27.04 ⁵⁶	64.17 ¹¹⁴	58.52 ²⁸	70.63 ¹³⁰	12.393 ⁶³	49.32 ⁶⁴	45.379 ¹²⁵	66.25 ¹³⁵
19	26.48 ⁶¹	65.31 ⁶²	58.24 ³¹	71.93 ⁸³	12.330 ⁷⁸	48.68 ⁶³	45.254 ¹⁴²	67.60 ¹⁰²
29	25.87 ⁶²	65.93 ⁹	57.93 ³³	72.76 ³³	12.252 ⁹⁰	48.05 ⁶⁰	45.112 ¹⁵⁵	68.62 ⁶⁵
Juli 9	25.25 ⁶²	66.02 ⁴⁵	57.60 ³²	73.09 ¹⁷	12.162 ¹⁰⁰	47.45 ⁵⁴	44.957 ¹⁶²	69.27 ²⁸
19	24.63 ⁶²	65.57 ⁹⁸	57.28 ³³	72.92 ⁶⁷	12.062 ¹⁰⁶	46.91 ⁴⁸	44.795 ¹⁶⁶	69.55 ¹¹
29	24.01 ⁵⁹	64.59 ¹⁴⁹	56.95 ³²	72.25 ¹¹⁷	11.956 ¹⁰⁸	46.43 ³⁹	44.629 ¹⁶⁴	69.44 ⁵¹
Aug. 8	23.42 ⁵⁶	63.10 ¹⁹⁸	56.63 ³⁰	71.08 ¹⁶⁴	11.848 ¹⁰⁴	46.04 ²⁸	44.465 ¹⁵⁶	68.93 ⁸⁹
18	22.86 ⁵⁰	61.12 ²⁴³	56.33 ²⁷	69.44 ²⁰⁸	11.744 ⁹⁵	45.76 ¹⁵	44.309 ¹⁴²	68.04 ¹²⁸
28	22.36 ⁴³	58.69 ²⁸⁴	56.06 ²³	67.36 ²⁵⁰	11.649 ⁸⁰	45.61 ¹	44.167 ¹²³	66.76 ¹⁶⁵
Sept. 7	21.93 ³⁵	55.85 ³¹⁸	55.83 ¹⁹	64.86 ²⁸⁷	11.569 ⁵⁷	45.60 ¹⁷	44.044 ⁹⁵	65.11 ¹⁹⁹
17	21.58 ²⁶	52.67 ³⁴⁸	55.64 ¹³	61.99 ³¹⁸	11.512 ²⁸	45.77 ³⁶	43.949 ⁶¹	63.12 ²³²
27	21.32 ¹⁶	49.19 ³⁷¹	55.51 ⁷	58.81 ³⁴⁴	11.484 ⁷	46.13 ⁵⁸	43.888 ²⁰	60.80 ²⁶⁰
Okt. 7	21.16 ⁵	45.48 ³⁸⁶	55.44 ⁰	55.37 ³⁶⁴	11.491 ⁴⁷	46.71 ⁸¹	43.868 ²⁶	58.20 ²⁸⁶
17	21.11 ⁸	41.62 ³⁹³	55.44 ⁸	51.73 ³⁷⁶	11.538 ⁹²	47.52 ¹⁰⁶	43.894 ⁷⁸	55.34 ³⁰⁶
27	21.19 ²⁰	37.69 ³⁹¹	55.52 ¹⁶	47.97 ³⁸¹	11.630 ¹³⁸	48.58 ¹³²	43.972 ¹³²	52.28 ³²⁰
Nov. 6	21.39 ³³	33.78 ³⁸¹	55.68 ²⁴	44.16 ³⁷⁵	11.768 ¹⁸⁵	49.90 ¹⁵⁵	44.104 ¹⁸⁷	49.08 ³²⁷
16	21.72 ⁴⁵	29.97 ³⁶⁰	55.92 ³¹	40.41 ³⁶¹	11.953 ²²⁹	51.45 ¹⁷⁸	44.291 ²³⁹	45.81 ³²⁶
26	22.17 ⁵⁷	26.37 ³³⁰	56.23 ³⁹	36.80 ³³⁷	12.182 ²⁶⁹	53.23 ¹⁹⁶	44.530 ²⁸⁸	42.55 ³¹⁸
Dez. 6	22.74 ⁶⁷	23.07 ²⁸⁸	56.62 ⁴⁵	33.43 ³⁰²	12.451 ³⁰⁰	55.19 ²⁰⁹	44.818 ³²⁸	39.37 ²⁹⁹
16	23.41 ⁷⁴	20.19 ²⁴⁰	57.07 ⁵⁰	30.41 ²⁵⁹	12.751 ³²⁴	57.28 ²¹⁷	45.146 ³⁶¹	36.38 ²⁷²
26	24.15 ⁸¹	17.79 ¹⁸³	57.57 ⁵³	27.82 ²⁰⁷	13.075 ³³⁷	59.45 ²¹⁷	45.507 ³⁸¹	33.66 ²³⁶
36	24.96	15.96	58.10	25.75	13.412	61.62	45.888	31.30
Mittl. Ort	22.35	58.01	55.33	66.38	10.531	37.59	43.050	67.29
sec δ, tg δ	3.372	+3.220	2.018	+1.753	1.000	—0.004	1.261	+0.768
a, a'	+1.5	—18.7	+2.2	—18.7	+3.1	—18.5	+2.7	—18.5
b, b'	—0.20	+0.36	—0.11	+0.37	0.00	+0.39	—0.05	+0.39

Tag	504) ϵ Centauri		507) τ Bootis		509) η Ursae maj.		510) δ Virginis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$13^h 35^m$	$-53^\circ 6'$	$13^h 43^m$	$+17^\circ 47'$	$13^h 44^m$	$+49^\circ 38'$	$13^h 46^m$	$-17^\circ 47'$
Jan. 1	28.498 ⁵⁰⁴	45.46 ¹²⁴	58.428 ³⁴³	50.78 ²²⁴	49.173 ⁴⁴⁰	67.89 ²⁰⁹	6.191 ³⁵⁴	25.10 ¹⁹⁰
11	29.002 ⁴⁹⁹	46.70 ¹⁶⁸	58.771 ³⁴⁴	48.54 ¹⁹⁶	49.613 ⁴⁴⁷	65.80 ¹⁵⁴	6.545 ³⁵²	27.00 ¹⁹⁸
21	29.501 ⁴⁸⁰	48.38 ²⁰⁵	59.115 ³³⁵	46.58 ¹⁶⁰	50.060 ⁴⁴⁰	64.26 ⁹⁴	6.897 ³⁴⁰	28.98 ²⁰²
31	29.981 ⁴⁴⁹	50.43 ²³⁸	59.450 ³¹⁷	44.98 ¹²¹	50.500 ⁴¹⁹	63.32 ³²	7.237 ³²¹	31.00 ¹⁹⁹
Feb. 10	30.430 ⁴¹⁰	52.81 ²⁶⁴	59.767 ²⁹⁰	43.77 ⁷⁹	50.919 ³⁸⁶	63.00 ²⁹	7.558 ²⁹⁵	32.99 ¹⁹²
20	30.840 ³⁶⁴	55.45 ²⁸²	60.057 ²⁵⁹	42.98 ³⁷	51.305 ³⁴⁴	63.29 ⁸⁷	7.853 ²⁶⁴	34.91 ¹⁷⁸
März 2	31.204 ³¹⁴	58.27 ²⁹³	60.316 ²²⁴	42.61 ⁴	51.649 ²⁹⁴	64.16 ¹⁴⁰	8.117 ²³¹	36.69 ¹⁶³
12	31.518 ²⁶³	61.20 ²⁹⁹	60.540 ¹⁸⁷	42.65 ⁴²	51.943 ²³⁹	65.56 ¹⁸⁴	8.348 ¹⁹⁶	38.32 ¹⁴⁵
22	31.781 ²¹⁰	64.19 ²⁹⁸	60.727 ¹⁵⁰	43.07 ⁷⁵	52.182 ¹⁸²	67.40 ²²⁰	8.544 ¹⁶¹	39.77 ¹²⁶
Apr. 1	31.991 ¹⁵⁹	67.17 ²⁹¹	60.877 ¹¹⁴	43.82 ¹⁰¹	52.364 ¹²⁴	69.60 ²⁴⁵	8.705 ¹²⁹	41.03 ¹⁰⁶
11	32.150 ¹⁰⁸	70.08 ²⁸⁰	60.991 ⁸⁰	44.83 ¹²¹	52.488 ⁶⁸	72.05 ²⁶⁰	8.834 ⁹⁷	42.09 ⁸⁸
20	32.258 ⁵⁹	72.88 ²⁶³	61.071 ⁴⁸	46.04 ¹³⁶	52.556 ¹⁶	74.65 ²⁶⁴	8.931 ⁶⁷	42.97 ⁷⁰
30	32.317 ¹³	75.51 ²⁴²	61.119 ¹⁸	47.40 ¹⁴²	52.572 ³⁴	77.29 ²⁵⁹	8.998 ³⁹	43.67 ⁵²
Mai 10	32.330 ³²	77.93 ²¹⁷	61.137 ⁸	48.82 ¹⁴²	52.538 ⁷⁸	79.88 ²⁴⁴	9.037 ¹²	44.19 ³⁷
20	32.298 ⁷⁴	80.10 ¹⁸⁸	61.129 ³³	50.24 ¹³⁸	52.460 ¹¹⁶	82.32 ²¹⁹	9.049 ¹²	44.56 ²¹
30	32.224 ¹¹⁴	81.98 ¹⁵⁵	61.096 ⁵⁵	51.62 ¹²⁸	52.344 ¹⁵¹	84.51 ¹⁸⁹	9.037 ³⁵	44.77 ⁶
Juni 9	32.110 ¹⁴⁹	83.53 ¹¹⁹	61.041 ⁷³	52.90 ¹¹⁴	52.193 ¹⁷⁸	86.40 ¹⁵³	9.002 ⁵⁶	44.83 ⁷
19	31.961 ¹⁸⁰	84.72 ⁸¹	60.968 ⁹⁰	54.04 ⁹⁷	52.015 ²⁰²	87.93 ¹¹³	8.946 ⁷⁶	44.76 ²⁰
29	31.781 ²⁰⁶	85.53 ⁴¹	60.878 ¹⁰⁵	55.01 ⁷⁶	51.813 ²¹⁸	89.06 ⁶⁹	8.870 ⁹²	44.56 ³²
Juli 9	31.575 ²²⁵	85.94 ¹	60.773 ¹¹⁵	55.77 ⁵⁵	51.595 ²³⁰	89.75 ²⁴	8.778 ¹⁰⁶	44.24 ⁴⁴
19	31.350 ²³⁵	85.93 ⁴¹	60.658 ¹²²	56.32 ³⁰	51.365 ²³⁴	89.99 ²²	8.672 ¹¹⁵	43.80 ⁵³
29	31.115 ²³⁸	85.52 ⁸¹	60.536 ¹²⁴	56.62 ⁵	51.131 ²³³	89.77 ⁶⁹	8.557 ¹²⁰	43.27 ⁶²
Aug. 8	30.877 ²³⁰	84.71 ¹¹⁹	60.412 ¹²²	56.67 ²²	50.898 ²²⁵	89.08 ¹¹⁴	8.437 ¹¹⁸	42.65 ⁶⁷
18	30.647 ²¹⁰	83.52 ¹⁵¹	60.290 ¹¹⁴	56.45 ⁴⁸	50.673 ²⁰⁸	87.94 ¹⁵⁸	8.319 ¹¹¹	41.98 ⁷¹
28	30.437 ¹⁷⁹	82.01 ¹⁷⁹	60.176 ⁹⁹	55.97 ⁷⁶	50.465 ¹⁸⁵	86.36 ²⁰⁰	8.208 ⁹⁶	41.27 ⁷⁰
Sept. 7	30.258 ¹³⁷	80.22 ²⁰¹	60.077 ⁷⁸	55.21 ¹⁰³	50.280 ¹⁵³	84.36 ²³⁸	8.112 ⁷³	40.57 ⁶⁶
17	30.121 ⁸⁴	78.21 ²¹³	59.999 ⁵⁰	54.18 ¹³¹	50.127 ¹¹³	81.98 ²⁷³	8.039 ⁴⁴	39.91 ⁵⁸
27	30.037 ²⁰	76.08 ²¹⁸	59.949 ¹⁵	52.87 ¹⁵⁹	50.014 ⁶⁵	79.25 ³⁰³	7.995 ⁶	39.33 ⁴⁴
Okt. 7	30.017 ⁵⁰	73.90 ²¹²	59.934 ²⁶	51.28 ¹⁸⁵	49.949 ¹¹	76.22 ³²⁹	7.989 ³⁷	38.89 ²⁶
17	30.067 ¹²⁴	71.78 ¹⁹⁸	59.960 ⁷⁰	49.43 ²⁰⁹	49.938 ⁵⁰	72.93 ³⁴⁸	8.026 ⁸⁵	38.63 ³
27	30.191 ²⁰²	69.80 ¹⁷³	60.030 ¹¹⁹	47.34 ²³⁰	49.988 ¹¹³	69.45 ³⁵⁹	8.111 ¹³⁵	38.60 ²²
Nov. 6	30.393 ²⁷⁶	68.07 ¹⁴⁰	60.149 ¹⁶⁷	45.04 ²⁴⁸	50.101 ¹⁷⁹	65.86 ³⁶³	8.246 ¹⁸⁵	38.82 ⁵⁰
16	30.669 ³⁴⁴	66.67 ¹⁰⁰	60.316 ²¹⁴	42.56 ²⁶⁰	50.280 ²⁴²	62.23 ³⁵⁷	8.431 ²³²	39.32 ⁸⁰
26	31.013 ⁴⁰⁴	65.67 ⁵⁴	60.530 ²⁵⁷	39.96 ²⁶⁶	50.522 ³⁰²	58.66 ³⁴³	8.663 ²⁷⁵	40.12 ¹¹⁰
Dez. 6	31.417 ⁴⁵²	65.13 ⁵	60.787 ²⁹²	37.30 ²⁶⁵	50.824 ³⁵⁵	55.23 ³¹⁸	8.938 ³¹⁰	41.22 ¹³⁷
16	31.869 ⁴⁸⁵	65.08 ⁴⁴	61.079 ³²⁰	34.65 ²⁵⁶	51.179 ³⁹⁶	52.05 ²⁸³	9.248 ³³⁵	42.59 ¹⁶⁰
26	32.354 ⁵⁰³	65.52 ⁹⁴	61.399 ³³⁸	32.09 ²³⁸	51.575 ⁴²⁷	49.22 ²³⁹	9.583 ³⁵⁰	44.19 ¹⁷⁹
36	32.857	66.46	61.737	29.71	52.002	46.83	9.933	45.98
Mittl. Ort	30.126	59.04	58.987	59.77	49.469	85.39	7.112	27.97
sec δ , tg δ	1.666	-1.333	1.050	+0.321	1.545	+1.177	1.050	-0.321
a, a'	+3.8	-18.3	+2.9	-18.0	+2.4	-18.0	+3.3	-17.9
b, b'	+0.08	+0.40	-0.02	+0.44	-0.07	+0.44	+0.02	+0.45

Tag	512) ζ Centauri		513) η Bootis		517) ιι Bootis		516) τ Virginis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	13 ^h 51 ^m	—46° 56'	13 ^h 51 ^m	+18° 44'	13 ^h 58 ^m	+27° 42'	13 ^h 58 ^m	+1° 52'
Jan. I	11.875 ⁴⁵⁶	47.35 ¹²¹	23.366 ³⁴³	24.98 ²²⁹	2.247 ³⁵⁴	56.50 ²³³	7.226 ³³⁵	35.24 ²¹⁵
II	12.331 ⁴⁵⁵	48.56 ¹⁵⁹	23.709 ³⁴⁶	22.69 ¹⁹⁹	2.601 ³⁵⁹	54.17 ¹⁹⁴	7.561 ³³⁷	33.09 ²⁰³
21	12.786 ⁴⁴¹	50.15 ¹⁹³	24.055 ³³⁷	20.70 ¹⁶²	2.960 ³⁵³	52.23 ¹⁵⁰	7.898 ³²⁹	31.06 ¹⁸⁵
31	13.227 ⁴¹⁸	52.08 ²²⁰	24.392 ³²¹	19.08 ¹²³	3.313 ³³⁷	50.73 ¹⁰²	8.227 ³¹³	29.21 ¹⁶¹
Feb. 10	13.645 ³⁸⁵	54.28 ²⁴²	24.713 ²⁹⁶	17.85 ⁸⁰	3.650 ³¹³	49.71 ⁵³	8.540 ²⁹⁰	27.60 ¹³⁴
20	14.030 ³⁴⁷	56.70 ²⁵⁶	25.009 ²⁶⁶	17.05 ³⁶	3.963 ²⁸²	49.18 ³	8.830 ²⁶¹	26.26 ¹⁰³
März 2	14.377 ³⁰⁵	59.26 ²⁶⁵	25.275 ²³¹	16.69 ⁶	4.245 ²⁴⁷	49.15 ⁴⁵	9.091 ²³⁰	25.23 ⁷²
12	14.682 ²⁶¹	61.91 ²⁶⁸	25.506 ¹⁹⁵	16.75 ⁴⁴	4.492 ²⁰⁹	49.60 ⁸⁷	9.321 ¹⁹⁷	24.51 ⁴²
22	14.943 ²¹⁵	64.59 ²⁶⁶	25.701 ¹⁵⁸	17.19 ⁷⁸	4.701 ¹⁶⁹	50.47 ¹²³	9.518 ¹⁶⁴	24.09 ¹⁴
Apr. I	15.158 ¹⁷¹	67.25 ²⁶⁰	25.859 ¹²²	17.97 ¹⁰⁵	4.870 ¹²⁹	51.70 ¹⁵³	9.682 ¹³²	23.95 ¹²
11	15.329 ¹²⁷	69.85 ²⁴⁸	25.981 ⁸⁸	19.02 ¹²⁷	4.999 ⁹²	53.23 ¹⁷³	9.814 ¹⁰¹	24.07 ³²
20*)	15.456 ⁸⁵	72.33 ²³³	26.069 ⁵⁵	20.29 ¹⁴⁰	5.091 ⁵⁶	54.96 ¹⁸⁷	9.915 ⁷¹	24.39 ⁵⁰
30	15.541 ⁴³	74.66 ²¹⁴	26.124 ²⁵	21.69 ¹⁴⁸	5.147 ²²	56.83 ¹⁹¹	9.986 ⁴³	24.89 ⁶²
Mai 10	15.584 ³	76.80 ¹⁹³	26.149 ²	23.17 ¹⁴⁹	5.169 ⁸	58.74 ¹⁸⁸	10.029 ¹⁸	25.51 ⁷¹
20	15.587 ³⁵	78.73 ¹⁶⁷	26.147 ²⁷	24.66 ¹⁴³	5.161 ³⁶	60.62 ¹⁷⁹	10.047 ⁷	26.22 ⁷⁶
30	15.552 ⁷¹	80.40 ¹³⁸	26.120 ⁵⁰	26.09 ¹³³	5.125 ⁶²	62.41 ¹⁶³	10.040 ²⁹	26.98 ⁷⁷
Juni 9	15.481 ¹⁰⁵	81.78 ¹⁰⁷	26.070 ⁷¹	27.42 ¹¹⁹	5.063 ⁸⁵	64.04 ¹⁴²	10.011 ⁵⁰	27.75 ⁷⁶
19	15.376 ¹³⁵	82.85 ⁷⁵	25.999 ⁸⁹	28.61 ¹⁰¹	4.978 ¹⁰⁴	65.46 ¹¹⁸	9.961 ⁶⁹	28.51 ⁷²
29	15.241 ¹⁶⁰	83.60 ³⁹	25.910 ¹⁰⁴	29.62 ⁸⁰	4.874 ¹²¹	66.64 ⁸⁹	9.892 ⁸⁵	29.23 ⁶⁵
Juli 9	15.081 ¹⁸¹	83.99 ³	25.806 ¹¹⁶	30.42 ⁵⁶	4.753 ¹³⁴	67.53 ⁵⁸	9.807 ⁹⁹	29.88 ⁵⁸
19	14.900 ¹⁹⁵	84.02 ³³	25.690 ¹²³	30.98 ³²	4.619 ¹⁴³	68.11 ²⁶	9.708 ¹⁰⁹	30.46 ⁴⁸
29	14.705 ²⁰¹	83.69 ⁶⁷	25.567 ¹²⁸	31.30 ⁶	4.476 ¹⁴⁷	68.37 ⁷	9.599 ¹¹⁵	30.94 ³⁶
Aug. 8	14.504 ¹⁹⁹	83.02 ¹⁰⁰	25.439 ¹²⁶	31.36 ²²	4.329 ¹⁴⁶	68.30 ⁴¹	9.484 ¹¹⁵	31.30 ²⁴
18	14.305 ¹⁸⁶	82.02 ¹³⁰	25.313 ¹¹⁹	31.14 ⁵⁰	4.183 ¹³⁸	67.89 ⁷⁶	9.369 ¹¹⁰	31.54 ¹⁰
28	14.119 ¹⁶³	80.72 ¹⁵⁵	25.194 ¹⁰⁵	30.64 ⁷⁸	4.045 ¹²⁴	67.13 ¹¹⁰	9.259 ⁹⁸	31.64 ⁷
Sept. 7	13.956 ¹²⁹	79.17 ¹⁷³	25.089 ⁸⁴	29.86 ¹⁰⁶	3.921 ¹⁰³	66.03 ¹⁴²	9.161 ⁷⁹	31.57 ²⁵
17	13.827 ⁸⁵	77.44 ¹⁸⁵	25.005 ⁵⁷	28.80 ¹³⁵	3.818 ⁷⁵	64.61 ¹⁷⁵	9.082 ⁵³	31.32 ⁴⁶
27	13.742 ³²	75.59 ¹⁸⁹	24.948 ²³	27.45 ¹⁶³	3.743 ³⁹	62.86 ²⁰⁶	9.029 ¹⁹	30.86 ⁶⁷
Okt. 7	13.710 ²⁹	73.70 ¹⁸⁴	24.925 ¹⁸	25.82 ¹⁸⁹	3.704 ³	60.80 ²³³	9.010 ²⁰	30.19 ⁹¹
17	13.739 ⁹⁵	71.86 ¹⁷⁰	24.943 ⁶³	23.93 ²¹⁴	3.707 ⁵⁰	58.47 ²⁵⁷	9.030 ⁶⁴	29.28 ¹¹⁵
27	13.834 ¹⁶⁴	70.16 ¹⁴⁸	25.006 ¹¹¹	21.79 ²³⁶	3.757 ¹⁰⁰	55.90 ²⁷⁸	9.094 ¹¹²	28.13 ¹³⁹
Nov. 6	13.998 ²³³	68.68 ¹¹⁸	25.117 ¹⁶⁰	19.43 ²⁵³	3.857 ¹⁵²	53.12 ²⁹²	9.206 ¹⁵⁹	26.74 ¹⁶²
16	14.231 ²⁹⁶	67.50 ⁸²	25.277 ²⁰⁷	16.90 ²⁶⁵	4.009 ²⁰²	50.20 ³⁰¹	9.365 ²⁰⁶	25.12 ¹⁸⁴
26	14.527 ³⁵²	66.68 ⁴⁰	25.484 ²⁵¹	14.25 ²⁷²	4.211 ²⁴⁹	47.19 ³⁰¹	9.571 ²⁴⁸	23.28 ²⁰¹
Dez. 6	14.879 ³⁹⁸	66.28 ⁴	25.735 ²⁸⁹	11.53 ²⁷⁰	4.460 ²⁹⁰	44.18 ²⁹³	9.819 ²⁸⁴	21.27 ²¹²
16	15.277 ⁴³²	66.32 ⁴⁹	26.024 ³¹⁸	8.83 ²⁶⁰	4.750 ³²³	41.25 ²⁷⁷	10.103 ³¹¹	19.15 ²¹⁹
26	15.709 ⁴⁵³	66.81 ⁹⁴	26.342 ³³⁶	6.23 ²⁴²	5.073 ³⁴⁵	38.48 ²⁵¹	10.414 ³²⁹	16.96 ²¹⁸
36	16.162	67.75	26.678	3.81	5.418	35.97	10.743	14.78
Mittl. Ort	13.411	58.60	23.963	34.47	2.820	68.82	8.002	39.45
sec δ, tg δ	1.465	—1.070	1.056	+0.339	1.130	+0.525	1.000	+0.033
a, a'	+3.7	—17.7	+2.9	—17.7	+2.7	—17.4	+3.1	—17.4
b, b'	+0.06	+0.47	—0.02	+0.47	—0.03	+0.49	0.00	+0.49

*) Bei Stern 517) und 516) lies April 21

Tag	518) β Centauri		521) α Draconis		520) δ Centauri		522) d Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	13 ^h 58 ^m	−60° 2'	14 ^h 2 ^m	+64° 41'	14 ^h 2 ^m	−36° 1'	14 ^h 7 ^m	+25° 24'
Jan. I	54.01 ⁵⁸	14.75 ⁷⁶	30.85 ⁵⁸	58.70 ²⁰⁷	35.485 ³⁹⁸	45.45 ¹³⁸	14.526 ³⁴⁷	52.07 ²³⁶
II	54.59 ⁵⁹	15.51 ¹²⁴	31.43 ⁶¹	56.63 ¹⁴⁶	35.883 ⁴⁰⁰	46.83 ¹⁶⁷	14.873 ³⁵³	49.71 ²⁰¹
21	55.18 ⁵⁷	16.75 ¹⁶⁹	32.04 ⁶¹	55.17 ⁸¹	36.283 ³⁹⁰	48.50 ¹⁹⁰	15.226 ³⁴⁹	47.70 ¹⁶⁰
31	55.75 ⁵⁴	18.44 ²⁰⁸	32.65 ⁵⁹	54.36 ¹⁴	36.673 ³⁷¹	50.40 ²⁰⁷	15.575 ³³⁵	46.10 ¹¹⁴
Feb. 10	56.29 ⁵¹	20.52 ²⁴¹	33.24 ⁵⁶	54.22 ⁵²	37.044 ³⁴⁵	52.47 ²¹⁹	15.910 ³¹³	44.96 ⁶⁵
20	56.80 ⁴⁶	22.93 ²⁶⁸	33.80 ⁵⁰	54.74 ¹¹⁵	37.389 ³¹³	54.66 ²²⁴	16.223 ²⁸⁴	44.31 ¹⁶
März 2	57.26 ⁴¹	25.61 ²⁸⁷	34.30 ⁴³	55.89 ¹⁷¹	37.702 ²⁷⁷	56.90 ²²⁵	16.507 ²⁵¹	44.15 ³¹
12	57.67 ³⁵	28.48 ³⁰¹	34.73 ³⁶	57.60 ²¹⁸	37.979 ²⁴¹	59.15 ²²²	16.758 ²¹⁴	44.46 ⁷³
22	58.02 ²⁹	31.49 ³⁰⁸	35.09 ²⁷	59.78 ²⁵⁶	38.220 ²⁰³	61.37 ²¹⁴	16.972 ¹⁷⁶	45.19 ¹¹⁰
Apr. I	58.31 ²³	34.57 ³⁰⁸	35.36 ¹⁸	62.34 ²⁸²	38.423 ¹⁶⁵	63.51 ²⁰⁴	17.148 ¹³⁹	46.29 ¹⁴¹
II	58.54 ¹⁷	37.65 ³⁰³	35.54 ¹⁰	65.16 ²⁹⁶	38.588 ¹²⁹	65.55 ¹⁹⁰	17.287 ¹⁰²	47.70 ¹⁶³
21	58.71 ¹⁰	40.68 ²⁹²	35.64 ¹	68.12 ²⁹⁹	38.717 ⁹³	67.45 ¹⁷⁵	17.389 ⁶⁷	49.33 ¹⁷⁷
30	58.81 ⁵	43.60 ²⁷⁷	35.65 ⁸	71.11 ²⁹¹	38.810 ⁵⁹	69.20 ¹⁵⁸	17.456 ³⁵	51.10 ¹⁸⁴
Mai 10	58.86 ¹	46.37 ²⁵⁵	35.57 ¹⁵	74.02 ²⁷³	38.869 ²⁵	70.78 ¹³⁹	17.491 ³	52.94 ¹⁸³
20	58.85 ⁷	48.92 ²²⁸	35.42 ²¹	76.75 ²⁴⁶	38.894 ⁶	72.17 ¹¹⁸	17.494 ²⁵	54.77 ¹⁷⁶
30	58.78 ¹²	51.20 ¹⁹⁸	35.21 ²⁷	79.21 ²¹⁰	38.888 ³⁷	73.35 ⁹⁵	17.469 ⁵¹	56.53 ¹⁶²
Juni 9	58.66 ¹⁶	53.18 ¹⁶²	34.94 ³³	81.31 ¹⁶⁹	38.851 ⁶⁶	74.30 ⁷¹	17.418 ⁷⁴	58.15 ¹⁴³
19	58.50 ²¹	54.80 ¹²⁴	34.61 ³⁶	83.00 ¹²³	38.785 ⁹³	75.01 ⁴⁶	17.344 ⁹⁵	59.58 ¹²¹
29	58.29 ²⁵	56.04 ⁸²	34.25 ³⁹	84.23 ⁷⁴	38.692 ¹¹⁷	75.47 ¹⁹	17.249 ¹¹⁴	60.79 ⁹⁵
Juli 9	58.04 ²⁸	56.86 ³⁹	33.86 ⁴²	84.97 ²³	38.575 ¹³⁶	75.66 ⁷	17.135 ¹²⁸	61.74 ⁶⁵
19	57.76 ³⁰	57.25 ⁷	33.44 ⁴²	85.20 ³⁰	38.439 ¹⁵¹	75.59 ³³	17.007 ¹³⁸	62.39 ³⁵
29	57.46 ³¹	57.18 ⁵²	33.02 ⁴²	84.90 ⁸²	38.288 ¹⁵⁹	75.26 ⁵⁹	16.869 ¹⁴⁵	62.74 ³
Aug. 8	57.15 ³¹	56.66 ⁹⁴	32.60 ⁴¹	84.08 ¹³²	38.129 ¹⁶⁰	74.67 ⁸²	16.724 ¹⁴⁵	62.77 ²⁹
18	56.84 ²⁹	55.72 ¹³⁵	32.19 ³⁹	82.76 ¹⁸⁰	37.969 ¹⁵²	73.85 ¹⁰³	16.579 ¹³⁹	62.48 ⁶³
28	56.55 ²⁵	54.37 ¹⁷⁰	31.80 ³⁵	80.96 ²²⁶	37.817 ¹³⁷	72.82 ¹¹⁹	16.440 ¹²⁷	61.85 ⁹⁶
Sept. 7	56.30 ²¹	52.67 ²⁰⁰	31.45 ³¹	78.70 ²⁶⁸	37.680 ¹¹¹	71.63 ¹³¹	16.313 ¹⁰⁷	60.89 ¹²⁹
17	56.09 ¹⁵	50.67 ²²¹	31.14 ²⁵	76.02 ³⁰⁴	37.569 ⁷⁶	70.32 ¹³⁷	16.206 ⁸¹	59.60 ¹⁶⁰
27	55.94 ⁸	48.46 ²³⁴	30.89 ¹⁸	72.98 ³³⁵	37.493 ³³	68.95 ¹³⁵	16.125 ⁴⁶	58.00 ¹⁹⁰
Okt. 7	55.86 ¹	46.12 ²³⁸	30.71 ¹⁰	69.63 ³⁶¹	37.460 ¹⁸	67.60 ¹²⁸	16.079 ⁵	56.10 ²¹⁹
17	55.87 ¹⁰	43.74 ²³¹	30.61 ²	66.02 ³⁷⁹	37.478 ⁷⁴	66.32 ¹¹³	16.074 ⁴¹	53.91 ²⁴⁵
27	55.97 ¹⁹	41.43 ²¹³	30.59 ⁷	62.23 ³⁸⁷	37.552 ¹³³	65.19 ⁹⁰	16.115 ⁹⁰	51.46 ²⁶⁶
Nov. 6	56.16 ²⁷	39.30 ¹⁸⁶	30.66 ¹⁷	58.36 ³⁸⁹	37.685 ¹⁹³	64.29 ⁶²	16.205 ¹⁴²	48.80 ²⁸²
16	56.43 ³⁶	37.44 ¹⁵¹	30.83 ²⁶	54.47 ³⁸⁰	37.878 ²⁴⁸	63.67 ³⁰	16.347 ¹⁹²	45.98 ²⁹³
26	56.79 ¹¹	35.93 ¹⁰⁷	31.09 ³⁵	50.67 ³⁶⁰	38.126 ²⁹⁹	63.37 ⁷	16.539 ²³⁹	43.05 ²⁹⁵
Dez. 6	57.23 ⁵⁰	34.86 ⁶⁰	31.44 ⁴³	47.07 ³³⁰	38.425 ³⁴¹	63.44 ⁴⁵	16.778 ²⁸¹	40.10 ²⁹⁰
16	57.73 ⁵⁵	34.26 ⁹	31.87 ⁵⁰	43.77 ²⁹⁰	38.766 ³⁷⁴	63.89 ⁸²	17.059 ³¹³	37.20 ²⁷⁷
26	58.28 ⁵⁸	34.17 ⁴³	32.37 ⁵⁶	40.87 ²⁴¹	39.140 ³⁹³	64.71 ¹¹⁷	17.372 ³³⁷	34.43 ²⁵³
36	58.86	34.60	32.93	38.46	39.533	65.88	17.709	31.90
Mittl. Ort	56.22	28.41	31.20	78.81	36.810	53.16	15.174	63.93
sec δ , tg δ	2.002	−1.735	2.340	+2.116	1.237	−0.727	1.107	+0.475
a, a'	+4.2	−17.4	+1.6	−17.2	+3.6	−17.2	+2.7	−17.0
b, b'	+0.10	+0.50	−0.12	+0.51	+0.04	+0.51	−0.03	+0.53

Tag	524) 4 Ursae min.		523) α Virginis		525) ϵ Virginis		526) α Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	14 ^h 9 ^m	+77° 51'	14 ^h 9 ^m	−9° 57'	14 ^h 12 ^m	−5° 40'	14 ^h 12 ^m	+19° 31'
Jan. I	4.83 ¹⁰⁴	57.15 ¹⁹¹	11.756 ³⁴⁰	12.87 ¹⁹³	22.659 ³³⁶	21.79 ²⁰²	30.091 ³³⁵	76.97 ²⁴¹
II	5.87 ¹¹⁰	55.24 ¹²⁸	12.096 ³⁴²	14.80 ¹⁹⁴	22.995 ³³⁹	23.81 ¹⁹⁸	30.426 ³⁴²	74.56 ²¹¹
21	6.97 ¹¹³	53.96 ⁶¹	12.438 ³³⁶	16.74 ¹⁸⁹	23.334 ³³³	25.79 ¹⁸⁹	30.768 ³³⁸	72.45 ¹⁷⁵
31	8.10 ¹¹¹	53.35 ⁶	12.774 ³²²	18.63 ¹⁷⁹	23.667 ³¹⁹	27.68 ¹⁷³	31.106 ³²⁵	70.70 ¹³⁴
Feb. 10	9.21 ¹⁰⁵	53.41 ⁷³	13.096 ²⁹⁹	20.42 ¹⁶³	23.986 ²⁹⁸	29.41 ¹⁵⁴	31.431 ³⁰⁵	69.36 ⁹¹
20	10.26 ⁹⁵	54.14 ¹³⁶	13.395 ²⁷³	22.05 ¹⁴³	24.284 ²⁷²	30.95 ¹³⁰	31.736 ²⁷⁷	68.45 ⁴⁵
März 2	11.21 ⁸³	55.50 ¹⁹⁰	13.668 ²⁴³	23.48 ¹²²	24.556 ²⁴³	32.25 ¹⁰⁵	32.013 ²⁴⁵	68.00 ¹
12	12.04 ⁶⁸	57.40 ²³⁷	13.911 ²¹¹	24.70 ¹⁰⁰	24.799 ²¹¹	33.30 ⁷⁹	32.258 ²¹²	67.99 ³⁹
22	12.72 ⁵⁰	59.77 ²⁷³	14.122 ¹⁷⁹	25.70 ⁷⁶	25.010 ¹⁸⁰	34.09 ⁵⁵	32.470 ¹⁷⁶	68.38 ⁷⁶
Apr. I	13.22 ³²	62.50 ²⁹⁶	14.301 ¹⁴⁷	26.46 ⁵⁵	25.190 ¹⁴⁸	34.64 ³¹	32.646 ¹⁴¹	69.14 ¹⁰⁵
II	13.54 ¹³	65.46 ³⁰⁹	14.448 ¹¹⁷	27.01 ³⁶	25.338 ¹¹⁸	34.95 ¹¹	32.787 ¹⁰⁷	70.19 ¹²⁸
21	13.67 ⁵	68.55 ³⁰⁹	14.565 ⁸⁸	27.37 ¹⁹	25.456 ⁸⁸	35.06 ⁷	32.894 ⁷⁴	71.47 ¹⁴⁴
30	13.62 ²³	71.64 ²⁹⁷	14.653 ⁶⁰	27.56 ³	25.544 ⁶¹	34.99 ²¹	32.968 ⁴³	72.91 ¹⁵³
Mai 10	13.39 ³⁹	74.61 ²⁷⁵	14.713 ³³	27.59 ⁹	25.605 ³⁴	34.78 ³²	33.011 ¹³	74.44 ¹⁵⁶
20	13.00 ⁵⁴	77.36 ²⁴⁵	14.746 ⁷	27.50 ²⁰	25.639 ⁹	34.46 ⁴⁰	33.024 ¹⁴	76.00 ¹⁵¹
30	12.46 ⁶⁷	79.81 ²⁰⁷	14.753 ¹⁷	27.30 ²⁹	25.648 ¹⁶	34.06 ⁴⁶	33.010 ⁴⁰	77.51 ¹⁴²
Juni 9	11.79 ⁷⁸	81.88 ¹⁶²	14.736 ⁴⁰	27.01 ³⁵	25.632 ³⁹	33.60 ⁵⁰	32.970 ⁶³	78.93 ¹²⁷
19	11.01 ⁸⁶	83.50 ¹¹⁴	14.696 ⁶¹	26.66 ⁴⁰	25.593 ⁶⁰	33.10 ⁵²	32.907 ⁸⁴	80.20 ¹⁰⁹
29	10.15 ⁹²	84.64 ⁶¹	14.635 ⁸¹	26.26 ⁴⁵	25.533 ⁷⁹	32.58 ⁵²	32.823 ¹⁰²	81.29 ⁸⁸
Juli 9	9.23 ⁹⁶	85.25 ⁸	14.554 ⁹⁸	25.81 ⁴⁷	25.454 ⁹⁶	32.06 ⁵¹	32.721 ¹¹⁸	82.17 ⁶⁴
19	8.27 ⁹⁸	85.33 ⁴⁷	14.456 ¹⁰⁹	25.34 ⁴⁹	25.358 ¹⁰⁹	31.55 ⁴⁹	32.603 ¹²⁹	82.81 ³⁸
29	7.29 ⁹⁷	84.86 ¹⁰⁰	14.347 ¹¹⁸	24.85 ⁴⁹	25.249 ¹¹⁶	31.06 ⁴⁴	32.474 ¹³⁷	83.19 ¹⁰
Aug. 8	6.32 ⁹⁴	83.86 ¹⁵¹	14.229 ¹²⁰	24.36 ⁴⁸	25.133 ¹²⁰	30.62 ³⁸	32.337 ¹³⁹	83.29 ¹⁸
18	5.38 ⁸⁹	82.35 ²⁰⁰	14.109 ¹¹⁶	23.88 ⁴⁴	25.013 ¹¹⁷	30.24 ³¹	32.198 ¹³⁴	83.11 ⁴⁷
28	4.49 ⁸²	80.35 ²⁴⁵	13.993 ¹⁰⁶	23.44 ³⁸	24.896 ¹⁰⁷	29.93 ²⁰	32.064 ¹²⁴	82.64 ⁷⁶
Sept. 7	3.67 ⁷³	77.90 ²⁸⁵	13.887 ⁸⁷	23.06 ²⁸	24.789 ⁸⁹	29.73 ⁸	31.940 ¹⁰⁵	81.88 ¹⁰⁶
17	2.94 ⁶¹	75.05 ³²⁰	13.800 ⁶¹	22.78 ¹⁶	24.700 ⁶³	29.65 ⁶	31.835 ⁸⁰	80.82 ¹³⁶
27	2.33 ⁴⁸	71.85 ³⁵⁰	13.739 ²⁷	22.62 ⁰	24.637 ³¹	29.71 ²⁵	31.755 ⁴⁷	79.46 ¹⁶⁵
Okt. 7	1.85 ³³	68.35 ³⁷³	13.712 ¹³	22.62 ¹⁹	24.606 ⁹	29.96 ⁴⁵	31.708 ⁷	77.81 ¹⁹²
17	1.52 ¹⁶	64.62 ³⁸⁷	13.725 ⁵⁸	22.81 ⁴⁰	24.615 ⁵³	30.41 ⁶⁸	31.701 ³⁷	75.89 ²¹⁹
27	1.36 ¹	60.75 ³⁹⁴	13.783 ¹⁰⁷	23.21 ⁶⁵	24.668 ¹⁰¹	31.09 ⁹²	31.738 ⁸⁵	73.70 ²⁴¹
Nov. 6	1.37 ¹⁹	56.81 ³⁹¹	13.890 ¹⁵⁶	23.86 ⁹⁰	24.769 ¹⁵¹	32.01 ¹¹⁷	31.823 ¹³⁶	71.29 ²⁶⁰
16	1.56 ³⁸	52.90 ³⁷⁸	14.046 ²⁰⁴	24.76 ¹¹⁵	24.920 ¹⁹⁸	33.18 ¹⁴⁰	31.959 ¹⁸⁵	68.69 ²⁷³
26	1.94 ⁵⁵	49.12 ³⁵⁵	14.250 ²⁴⁹	25.91 ¹³⁹	25.118 ²⁴¹	34.58 ¹⁶¹	32.144 ²³⁰	65.96 ²⁸⁰
Dez. 6	2.49 ⁷²	45.57 ³²²	14.499 ²⁸⁵	27.30 ¹⁶⁰	25.359 ²⁷⁹	36.19 ¹⁸⁰	32.374 ²⁷¹	63.16 ²⁸⁰
16	3.21 ⁸⁶	42.35 ²⁷⁸	14.784 ³¹⁴	28.90 ¹⁷⁷	25.638 ³⁰⁹	37.99 ¹⁹³	32.645 ³⁰³	60.36 ²⁷¹
26	4.07 ⁹⁸	39.57 ²²⁷	15.098 ³³⁴	30.67 ¹⁸⁷	25.947 ³²⁸	39.92 ¹⁹⁹	32.948 ³²⁶	57.65 ²⁵⁴
36	5.05	37.30	15.432	32.54	26.275	41.91	33.274	55.11
Mittl. Ort	5.23	78.37	12.712	12.17	23.586	19.56	30.810	87.21
sec δ , tg δ	4.760	+4.653	1.015	−0.175	1.005	−0.099	1.061	+0.355
α , α'	−0.2	−16.9	+3.2	−16.9	+3.1	−16.8	+2.8	−16.8
δ , δ'	−0.26	+0.53	+0.01	+0.53	+0.01	+0.55	−0.02	+0.55

Tag	527) λ Bootis		531) θ Bootis		534) ρ Bootis		535) γ Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	$14^h 13^m$	$+46^\circ 23'$	$14^h 22^m$	$+52^\circ 9'$	$14^h 28^m$	$+30^\circ 39'$	$14^h 29^m$	$+38^\circ 35'$
Jan. 1	45.142 ⁴⁰⁵	58.81 ²³⁸	50.260 ⁴³¹	50.17 ²⁴⁵	50.642 ³⁴⁶	70.90 ²⁵⁰	17.288 ³⁶⁶	77.83 ²⁵³
11	45.547 ⁴¹⁹	56.43 ¹⁸⁷	50.691 ⁴⁵¹	47.72 ¹⁹⁰	50.988 ³⁵⁸	68.40 ²¹¹	17.654 ³⁷⁹	75.30 ²⁰⁸
21	45.966 ⁴¹⁹	54.56 ¹³⁰	51.142 ⁴⁵⁵	45.82 ¹³¹	51.346 ³⁵⁹	66.29 ¹⁶⁵	18.033 ³⁸²	73.22 ¹⁵⁶
31	46.385 ⁴⁰⁶	53.26 ⁷⁰	51.597 ⁴⁴⁶	44.51 ⁶⁸	51.705 ³⁴⁹	64.64 ¹¹⁶	18.415 ³⁷⁴	71.66 ¹⁰⁰
Feb. 10	46.791 ³⁸³	52.56 ⁸	52.043 ⁴²³	43.83 ³	52.054 ³³²	63.48 ⁶²	18.789 ³⁵⁵	70.66 ⁴²
20	47.174 ³⁵⁰	52.48 ⁵²	52.466 ³⁸⁸	43.80 ⁶⁰	52.386 ³⁰⁵	62.86 ¹⁰	19.144 ³²⁷	70.24 ¹⁵
März 2	47.524 ³⁰⁸	53.00 ¹⁰⁸	52.854 ³⁴⁵	44.40 ¹¹⁷	52.691 ²⁷⁴	62.76 ⁴²	19.471 ²⁹³	70.39 ⁷⁰
12	47.832 ²⁶¹	54.08 ¹⁵⁷	53.199 ²⁹⁵	45.57 ¹⁶⁸	52.965 ²³⁹	63.18 ⁸⁹	19.764 ²⁵⁵	71.09 ¹¹⁹
22	48.093 ²¹⁰	55.65 ¹⁹⁸	53.494 ²³⁸	47.25 ²¹¹	53.204 ²⁰¹	64.07 ¹³⁰	20.019 ²¹²	72.28 ¹⁶³
Apr. 1	48.303 ¹⁶⁰	57.63 ²³⁰	53.732 ¹⁸¹	49.36 ²⁴⁵	53.405 ¹⁶³	65.37 ¹⁶³	20.231 ¹⁶⁹	73.91 ¹⁹⁷
11	48.463 ¹⁰⁸	59.93 ²⁵⁰	53.913 ¹²²	51.81 ²⁶⁷	53.568 ¹²⁵	67.00 ¹⁸⁹	20.400 ¹²⁶	75.88 ²²²
21	48.571 ⁵⁸	62.43 ²⁶²	54.035 ⁶⁶	54.48 ²⁷⁷	53.693 ⁸⁶	68.89 ²⁰⁵	20.526 ⁸⁴	78.10 ²³⁷
30	48.629 ¹¹	65.05 ²⁶³	54.101 ¹⁰	57.25 ²⁷⁹	53.779 ⁵¹	70.94 ²¹⁴	20.610 ⁴²	80.47 ²⁴⁴
Mai 10	48.640 ³³	67.68 ²⁵⁴	54.111 ⁴¹	60.04 ²⁶⁹	53.830 ¹⁷	73.08 ²¹³	20.652 ³	82.91 ²⁴⁰
20	48.607 ⁷³	70.22 ²³⁶	54.070 ⁸⁹	62.73 ²⁵¹	53.847 ¹⁶	75.21 ²⁰⁵	20.655 ³³	85.31 ²³⁰
30	48.534 ¹¹⁰	72.58 ²¹²	53.981 ¹³³	65.24 ²²⁴	53.831 ⁴⁶	77.26 ¹⁹⁰	20.622 ⁶⁷	87.61 ²¹⁰
Juni 9	48.424 ¹⁴²	74.70 ¹⁸⁰	53.848 ¹⁷⁰	67.48 ¹⁹¹	53.785 ⁷⁴	79.16 ¹⁷⁰	20.555 ⁹⁷	89.71 ¹⁸⁴
19	48.282 ¹⁷⁰	76.50 ¹⁴⁴	53.678 ²⁰³	69.39 ¹⁵³	53.711 ⁹⁹	80.86 ¹⁴⁴	20.458 ¹²⁵	91.55 ¹⁵⁴
29	48.112 ¹⁹²	77.94 ¹⁰⁴	53.475 ²³¹	70.92 ¹¹⁰	53.612 ¹²¹	82.30 ¹¹⁵	20.333 ¹⁴⁹	93.09 ¹²⁰
Juli 9	47.920 ²¹⁰	78.98 ⁶⁰	53.244 ²⁵¹	72.02 ⁶⁴	53.491 ¹⁴⁰	83.45 ⁸²	20.184 ¹⁶⁸	94.29 ⁸²
19	47.710 ²²¹	79.58 ¹⁶	52.993 ²⁶⁵	72.66 ¹⁷	53.351 ¹⁵⁴	84.27 ⁴⁸	20.016 ¹⁸²	95.11 ⁴¹
29	47.489 ²²⁷	79.74 ²⁹	52.728 ²⁷³	72.83 ³²	53.197 ¹⁶⁴	84.75 ¹¹	19.834 ¹⁹³	95.52 ⁰
Aug. 8	47.262 ²²⁶	79.45 ⁷⁵	52.455 ²⁷³	72.51 ⁸⁰	53.033 ¹⁶⁷	84.86 ²⁶	19.641 ¹⁹⁵	95.52 ⁴²
18	47.036 ²¹⁷	78.70 ¹²⁰	52.182 ²⁶⁴	71.71 ¹²⁷	52.866 ¹⁶⁴	84.60 ⁶³	19.446 ¹⁹¹	95.10 ⁸³
28	46.819 ²⁰¹	77.50 ¹⁶³	51.918 ²⁴⁵	70.44 ¹⁷³	52.702 ¹⁵⁵	83.97 ¹⁰⁰	19.255 ¹⁷⁹	94.27 ¹²⁵
Sept. 7	46.618 ¹⁷⁵	75.87 ²⁰⁴	51.673 ²¹⁹	68.71 ²¹⁶	52.547 ¹³⁷	82.97 ¹³⁶	19.076 ¹⁶⁰	93.02 ¹⁶⁵
17	46.443 ¹⁴¹	73.83 ²⁴²	51.454 ¹⁸²	66.55 ²⁵⁵	52.410 ¹¹¹	81.61 ¹⁷²	18.916 ¹³²	91.37 ²⁰³
27	46.302 ⁹⁹	71.41 ²⁷⁶	51.272 ¹³⁷	64.00 ²⁹⁰	52.299 ⁷⁷	79.89 ²⁰⁵	18.784 ⁹⁶	89.34 ²³⁷
Okt. 7	46.203 ⁴⁹	68.65 ³⁰⁶	51.135 ⁸²	61.10 ³²¹	52.222 ³⁷	77.84 ²³⁶	18.688 ⁵²	86.97 ²⁶⁹
17	46.154 ⁶	65.59 ³³⁰	51.053 ²¹	57.89 ³⁴⁶	52.185 ⁹	75.48 ²⁶³	18.636 ²	84.28 ²⁹⁷
27	46.160 ⁶⁸	62.29 ³⁴⁷	51.032 ⁴⁵	54.43 ³⁶³	52.194 ⁶¹	72.85 ²⁸⁵	18.634 ⁵²	81.31 ³¹⁷
Nov. 6	46.228 ¹³¹	58.82 ³⁵⁷	51.077 ¹¹⁶	50.80 ³⁷³	52.255 ¹¹⁵	70.00 ³⁰²	18.686 ¹¹¹	78.14 ³³³
16	46.359 ¹⁹⁵	55.25 ³⁵⁸	51.193 ¹⁸⁶	47.07 ³⁷³	52.370 ¹⁶⁸	66.98 ³¹³	18.797 ¹⁶⁹	74.81 ³³⁹
26	46.554 ²⁵⁴	51.67 ³⁵⁰	51.379 ²⁵⁴	43.34 ³⁶³	52.538 ²²⁰	63.85 ³¹⁵	18.966 ²²⁴	71.42 ³³⁸
Dez. 6	46.808 ³⁵⁸	48.17 ³³²	51.633 ³¹⁵	39.71 ³⁴³	52.758 ²⁶⁵	60.70 ³⁰⁹	19.190 ²⁷⁴	68.04 ³²⁷
16	47.116 ³⁵⁴	44.85 ³⁰⁴	51.948 ³⁶⁹	36.28 ³¹⁴	53.023 ³⁰⁴	57.61 ²⁹³	19.464 ³¹⁷	64.77 ³⁰⁵
26	47.470 ³⁸⁸	41.81 ²⁶⁵	52.317 ⁴¹⁰	33.14 ²⁷²	53.327 ³³³	54.68 ²⁶⁸	19.781 ³⁴⁹	61.72 ²⁷⁵
36	47.858	39.16	52.727	30.42	53.660	52.00	20.130	58.97
Mittl. Ort sec δ , tg δ	45.722 1.450	75.98 +1.050	50.906 1.630	68.49 +1.288	51.401 1.163	84.54 +0.593	18.021 1.280	93.41 +0.799
a, a'	+2.3	-16.7	+2.1	-16.3	+2.6	-16.0	+2.4	-15.9
b, b'	-0.06	+0.55	-0.07	+0.58	-0.03	+0.60	-0.04	+0.61

Tag	537) η Centauri		538) α Centauri ¹⁾		543) ζ Bootis med.		542) α Apodis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	14 ^h 31 ^m	—41° 51'	14 ^h 34 ^m	—60° 32'	14 ^h 37 ^m	+14° 0'	14 ^h 39 ^m	—78° 45'
Jan. I	5.338 ⁴²⁰	13.28 ⁹¹	51.72 ⁵⁷	54.25 ³⁵	50.276 ³²⁴	74.73 ²³⁵	5.41 ¹³¹	1.40 ³⁶
II	5.758 ⁴²⁷	14.19 ¹²⁵	52.29 ⁵⁹	54.60 ⁸²	50.600 ³³³	72.38 ²¹²	6.72 ¹³⁴	1.04 ²¹
21	6.185 ⁴²⁴	15.44 ¹⁵³	52.88 ⁵⁹	55.42 ¹²⁷	50.933 ³³⁴	70.26 ¹⁸²	8.06 ¹³⁶	1.25 ⁷⁶
31	6.609 ⁴¹¹	16.97 ¹⁷⁸	53.47 ⁵⁷	56.69 ¹⁶⁷	51.267 ³²⁶	68.44 ¹⁴⁶	9.42 ¹³⁵	2.01 ¹²⁹
Feb. 10	7.020 ³⁸⁹	18.75 ¹⁹⁶	54.04 ⁵³	58.36 ²⁰³	51.593 ³⁰⁹	66.98 ¹⁰⁷	10.77 ¹²⁸	3.30 ¹⁷⁷
20	7.409 ³⁶⁰	20.71 ²¹⁰	54.57 ⁴⁹	60.39 ²³²	51.902 ²⁸⁷	65.91 ⁶⁶	12.05 ¹²¹	5.07 ²²¹
März 2	7.769 ³²⁸	22.81 ²¹⁸	55.06 ⁴⁵	62.71 ²⁵⁵	52.189 ²⁶¹	65.25 ²⁵	13.26 ¹¹¹	7.28 ²⁵⁸
12	8.097 ²⁹¹	24.99 ²²²	55.51 ⁴⁰	65.26 ²⁷³	52.450 ²³⁰	65.00 ¹⁴	14.37 ⁹⁸	9.86 ²⁹⁰
22	8.388 ²⁵⁴	27.21 ²²¹	55.91 ³³	67.99 ²⁸⁴	52.680 ¹⁹⁹	65.14 ⁵¹	15.35 ⁸⁵	12.76 ³¹³
Apr. I	8.642 ²¹⁶	29.42 ²¹⁷	56.24 ²⁸	70.83 ²⁸⁹	52.879 ¹⁶⁷	65.65 ⁸¹	16.20 ⁷⁰	15.89 ³³¹
11	8.858 ¹⁷⁷	31.59 ²¹⁰	56.52 ²²	73.72 ²⁸⁹	53.046 ¹³⁶	66.46 ¹⁰⁶	16.90 ⁵⁵	19.20 ³⁴²
21	9.035 ¹³⁹	33.69 ¹⁹⁹	56.74 ¹⁶	76.61 ²⁸⁴	53.182 ¹⁰⁴	67.52 ¹²⁶	17.45 ³⁹	22.62 ³⁴⁵
30*)	9.174 ¹⁰⁰	35.68 ¹⁸⁶	56.90 ¹⁰	79.45 ²⁷³	53.286 ⁷³	68.78 ¹³⁷	17.84 ²²	26.07 ³⁴¹
Mai 10	9.274 ⁶¹	37.54 ¹⁷⁰	57.00 ³	82.18 ²⁵⁷	53.359 ⁴⁴	70.15 ¹⁴³	18.06 ⁵	29.48 ³³⁰
20	9.335 ²³	39.24 ¹⁵²	57.03 ³	84.75 ²³⁶	53.403 ¹⁶	71.58 ¹⁴⁴	18.11 ¹²	32.78 ³¹³
30	9.358 ¹⁴	40.76 ¹³¹	57.00 ⁹	87.11 ²¹⁰	53.419 ¹²	73.02 ¹³⁹	17.99 ²⁸	35.91 ²⁸⁸
Juni 9	9.344 ⁵⁰	42.07 ¹⁰⁷	56.91 ¹⁴	89.21 ¹⁸⁰	53.407 ³⁸	74.41 ¹²⁹	17.71 ⁴³	38.79 ²⁵⁷
19	9.294 ⁸⁴	43.14 ⁸⁴	56.77 ¹⁹	91.01 ¹⁴⁵	53.369 ⁶¹	75.70 ¹¹⁵	17.28 ⁵⁷	41.36 ²¹⁹
29	9.210 ¹¹⁶	43.96 ⁵²	56.58 ²⁴	92.46 ¹⁰⁸	53.308 ⁸⁴	76.85 ⁹⁹	16.71 ⁷⁰	43.55 ¹⁷⁶
Juli 9	9.094 ¹⁴²	44.50 ²⁵	56.34 ²⁸	93.54 ⁶⁶	53.224 ¹⁰³	77.84 ⁷⁹	16.01 ⁸⁰	45.31 ¹²⁸
19	8.952 ¹⁶⁴	44.75 ⁵	56.06 ³¹	94.20 ²⁴	53.121 ¹¹⁹	78.63 ⁵⁸	15.21 ⁸⁸	46.59 ⁷⁷
29	8.788 ¹⁸⁰	44.70 ³⁵	55.75 ³³	94.44 ²⁰	53.002 ¹³¹	79.21 ³⁵	14.33 ⁹³	47.36 ²³
Aug. 8	8.608 ¹⁸⁶	44.35 ⁶⁴	55.42 ³³	94.24 ⁶³	52.871 ¹³⁷	79.56 ¹⁰	13.40 ⁹⁴	47.59 ³¹
18	8.422 ¹⁸⁴	43.71 ⁹¹	55.09 ³³	93.61 ¹⁰⁶	52.734 ¹³⁷	79.66 ¹⁵	12.46 ⁹²	47.28 ⁸⁵
28	8.238 ¹⁷²	42.80 ¹¹⁴	54.76 ³⁰	92.55 ¹⁴⁴	52.597 ¹³⁰	79.51 ⁴¹	11.54 ⁸⁶	46.43 ¹³⁷
Sept. 7	8.066 ¹⁴⁹	41.66 ¹³⁴	54.46 ²⁶	91.11 ¹⁷⁷	52.467 ¹¹⁶	79.10 ⁶⁸	10.68 ⁷⁵	45.06 ¹⁸³
17	7.917 ¹¹⁴	40.32 ¹⁴⁷	54.20 ²¹	89.34 ²⁰⁴	52.351 ⁹³	78.42 ⁹⁵	9.93 ⁶³	43.23 ²²⁴
27	7.803 ⁷⁰	38.85 ¹⁵⁵	53.99 ¹⁴	87.30 ²²²	52.258 ⁶⁴	77.47 ¹²³	9.30 ⁴⁶	40.99 ²⁵⁵
Okt. 7	7.733 ¹⁸	37.30 ¹⁵⁴	53.85 ⁶	85.08 ²³³	52.194 ²⁶	76.24 ¹⁵¹	8.84 ²⁶	38.44 ²⁷⁸
17	7.715 ⁴²	35.76 ¹⁴⁶	53.79 ³	82.75 ²³²	52.168 ¹⁶	74.73 ¹⁷⁶	8.58 ⁶	35.66 ²⁸⁹
27	7.757 ¹⁰⁶	34.30 ¹³²	53.82 ¹³	80.43 ²²³	52.184 ⁶⁴	72.97 ²⁰¹	8.52 ¹⁷	32.77 ²⁸⁸
Nov. 6	7.863 ¹⁷²	32.98 ¹⁰⁸	53.95 ²²	78.20 ²⁰²	52.248 ¹¹⁴	70.96 ²²²	8.69 ⁴¹	29.89 ²⁷⁶
16	8.035 ²³⁴	31.90 ⁷⁹	54.17 ³¹	76.18 ¹⁷⁴	52.362 ¹⁶³	68.74 ²⁴⁰	9.10 ⁶²	27.13 ²⁵³
26	8.269 ²⁹²	31.11 ⁴⁶	54.48 ³⁹	74.44 ¹³⁷	52.525 ²⁰⁹	66.34 ²⁵¹	9.72 ⁸²	24.60 ²¹⁸
Dez. 6	8.561 ³⁴²	30.65 ⁹	54.87 ⁴⁷	73.07 ⁹⁴	52.734 ²⁵²	63.83 ²⁵⁶	10.54 ¹⁰⁰	22.42 ¹⁷⁶
16	8.903 ³⁸²	30.56 ²⁹	55.34 ⁵²	72.13 ⁴⁶	52.986 ²⁸⁶	61.27 ²⁵⁴	11.54 ¹¹⁵	20.66 ¹²⁷
26	9.285 ⁴¹⁰	30.85 ⁶⁸	55.86 ⁵⁷	71.67 ²	53.272 ³¹²	58.73 ²⁴⁴	12.69 ¹²⁶	19.39 ⁷³
36	9.695	31.53	56.43	71.69	53.584	56.29	13.95	18.66
Mittl. Ort	6.990	20.89	54.22	65.72	51.177	83.90	11.82	14.78
sec δ , tg δ	1.343	—0.896	2.034	—1.771	1.031	+0.250	5.128	—5.029
a, a'	+3.8	—15.8	+4.6	—15.6	+2.9	—15.5	+7.4	—15.4
b, b'	+0.05	+0.61	+0.09	+0.63	—0.01	+0.64	+0.26	+0.64

¹⁾ Ort des hellen Sterns; die jährliche Parallaxe (0.75) ist bereits berücksichtigt

*) Bei Stern 538), 543) und 542) lies Mai I

Tag	545) μ Virginis		547) ι_{09} Virginis		548) α Librae		549) Grb 2164	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	14 ^h 39 ^m	−5° 21'	14 ^h 42 ^m	+2° 10'	14 ^h 47 ^m	−15° 45'	14 ^h 49 ^m	+59° 33'
Jan. 1	24.199 ³²⁷	36.72 ¹⁹⁵	44.508 ³²¹	51.41 ²¹¹	2.203 ³³⁵	22.60 ¹⁶¹	40.204 ⁴⁶⁵	66.15 ²⁶³
11	24.526 ³³⁵	38.67 ¹⁹¹	44.829 ³³⁰	49.30 ²⁰⁰	2.538 ³⁴⁵	24.21 ¹⁶⁹	40.669 ⁵⁰⁰	63.52 ²⁰⁸
21	24.861 ³³⁴	40.58 ¹⁸²	45.159 ³³⁰	47.30 ¹⁸³	2.883 ³⁴⁵	25.90 ¹⁷¹	41.169 ⁵¹⁸	61.44 ¹⁴⁷
31	25.195 ³²⁵	42.40 ¹⁶⁷	45.489 ³²²	45.47 ¹⁶⁰	3.228 ³³⁷	27.61 ¹⁶⁷	41.687 ⁵¹⁹	59.97 ⁸²
Feb. 10	25.520 ³⁰⁸	44.07 ¹⁴⁷	45.811 ³⁰⁷	43.87 ¹³²	3.565 ³²¹	29.28 ¹⁵⁹	42.206 ⁵⁰³	59.15 ¹⁵
20	25.828 ²⁸⁷	45.54 ¹²³	46.118 ²⁸⁵	42.55 ¹⁰¹	3.886 ³⁰⁰	30.87 ¹⁴⁷	42.709 ⁴⁷³	59.00 ⁵¹
März 2	26.115 ²⁶¹	46.77 ⁹⁸	46.403 ²⁶⁰	41.54 ⁷⁰	4.186 ²⁷⁵	32.34 ¹³¹	43.182 ⁴³⁰	59.51 ¹¹⁴
12	26.376 ²³³	47.75 ⁷³	46.663 ²³³	40.84 ³⁸	4.461 ²⁴⁷	33.65 ¹¹⁴	43.612 ³⁷⁵	60.65 ¹⁶⁹
22	26.609 ²⁰⁴	48.48 ⁴⁸	46.896 ²⁰³	40.46 ⁸	4.708 ²¹⁸	34.79 ⁹⁵	43.987 ³¹³	62.34 ²¹⁷
Apr. 1	26.813 ¹⁷⁴	48.96 ²³	47.099 ¹⁷³	40.38 ¹⁹	4.926 ¹⁸⁹	35.74 ⁷⁷	44.300 ²⁴⁶	64.51 ²⁵⁵
11	26.987 ¹⁴⁴	49.19 ³	47.272 ¹⁴³	40.57 ⁴¹	5.115 ¹⁵⁹	36.51 ⁶¹	44.546 ¹⁷⁵	67.06 ²⁸¹
21	27.131 ¹¹⁶	49.22 ¹⁴	47.415 ¹¹⁴	40.98 ⁶⁰	5.274 ¹³⁰	37.12 ⁴⁵	44.721 ¹⁰⁵	69.87 ²⁹⁷
Mai 1	27.247 ⁸⁷	49.08 ²⁹	47.529 ⁸⁶	41.58 ⁷⁴	5.404 ¹⁰¹	37.57 ³²	44.826 ³⁵	72.84 ³⁰¹
10	27.334 ⁵⁹	48.79 ³⁹	47.615 ⁵⁷	42.32 ⁸³	5.505 ⁷¹	37.89 ¹⁹	44.861 ³³	75.85 ²⁹⁵
20	27.393 ³¹	48.40 ⁴⁷	47.672 ³⁰	43.15 ⁸⁸	5.576 ⁴³	38.08 ⁸	44.828 ⁹⁶	78.80 ²⁷⁸
30	27.424 ⁵	47.93 ⁵²	47.702 ²	44.03 ⁸⁹	5.619 ¹⁴	38.16 ¹	44.732 ¹⁵⁵	81.58 ²⁵⁴
Juni 9	27.429 ²¹	47.41 ⁵⁵	47.704 ²³	44.92 ⁸⁸	5.633 ¹⁵	38.15 ¹⁰	44.577 ²⁰⁷	84.12 ²²¹
19	27.408 ⁴⁶	46.86 ⁵⁵	47.681 ⁴⁷	45.80 ⁸²	5.618 ⁴¹	38.05 ¹⁷	44.370 ²⁵⁴	86.33 ¹⁸³
29	27.362 ⁶⁸	46.31 ⁵⁵	47.634 ⁷¹	46.62 ⁷⁵	5.577 ⁶⁷	37.88 ²⁴	44.116 ²⁹⁴	88.16 ¹³⁹
Juli 9	27.294 ⁸⁹	45.76 ⁵²	47.563 ⁹¹	47.37 ⁶⁶	5.510 ⁸⁹	37.64 ³¹	43.822 ³²⁵	89.55 ⁹¹
19	27.205 ¹⁰⁷	45.24 ⁴⁸	47.472 ¹⁰⁹	48.03 ⁵⁵	5.421 ¹⁰⁹	37.33 ³⁷	43.497 ³⁴⁹	90.46 ⁴²
29	27.098 ¹¹⁹	44.76 ⁴³	47.363 ¹²¹	48.58 ⁴²	5.312 ¹²³	36.96 ⁴¹	43.148 ³⁶⁴	90.88 ⁸
Aug. 8	26.979 ¹²⁶	44.33 ³⁶	47.242 ¹²⁹	49.00 ²⁹	5.189 ¹³³	36.55 ⁴⁵	42.784 ³⁶⁹	90.80 ⁶⁰
18	26.853 ¹²⁸	43.97 ²⁹	47.113 ¹³⁰	49.29 ¹⁴	5.056 ¹³⁵	36.10 ⁴⁷	42.415 ³⁶⁴	90.20 ¹¹⁰
28	26.725 ¹²¹	43.68 ¹⁹	46.983 ¹²⁴	49.43 ³	4.921 ¹²⁹	35.63 ⁴⁷	42.051 ³⁴⁸	89.10 ¹⁵⁹
Sept. 7	26.604 ¹⁰⁷	43.49 ⁷	46.859 ¹¹¹	49.40 ²¹	4.792 ¹¹⁶	35.16 ⁴⁵	41.703 ³²¹	87.51 ²⁰⁶
17	26.497 ⁸⁴	43.42 ⁸	46.748 ⁸⁹	49.19 ⁴¹	4.676 ⁹³	34.71 ³⁹	41.382 ²⁸²	85.45 ²⁴⁹
27	26.413 ⁵⁵	43.50 ²⁴	46.659 ⁶⁰	48.78 ⁶²	4.583 ⁶¹	34.32 ²⁹	41.100 ²³²	82.96 ²⁸⁷
Okt. 7	26.358 ¹⁷	43.74 ⁴⁴	46.599 ²³	48.16 ⁸⁵	4.522 ²³	34.03 ¹⁵	40.868 ¹⁷²	80.09 ³²¹
17	26.341 ²⁷	44.18 ⁶⁵	46.576 ¹⁹	47.31 ¹⁰⁸	4.499 ²²	33.88 ²	40.696 ¹⁰²	76.88 ³⁴⁹
27	26.368 ⁷⁴	44.83 ⁸⁸	46.595 ⁶⁶	46.23 ¹³²	4.521 ⁷²	33.90 ²¹	40.594 ²⁵	73.39 ³⁶⁹
Nov. 6	26.442 ¹²⁴	45.71 ¹¹²	46.661 ¹¹⁶	44.91 ¹⁵⁵	4.593 ¹²⁴	34.11 ⁴⁴	40.569 ⁵⁸	69.70 ³⁹²
16	26.566 ¹⁷³	46.83 ¹³⁴	46.777 ¹⁶⁴	43.36 ¹⁷⁶	4.717 ¹⁷⁵	34.55 ⁶⁹	40.627 ¹⁴²	65.88 ³⁸⁵
26	26.739 ²¹⁹	48.17 ¹⁵⁴	46.941 ²¹⁰	41.60 ¹⁹²	4.892 ²²³	35.24 ⁹³	40.769 ²²⁶	62.03 ³⁷⁷
Dez. 6	26.958 ²⁶⁰	49.71 ¹⁷²	47.151 ²⁵¹	39.68 ²⁰⁶	5.115 ²⁶⁵	36.17 ¹¹⁶	40.995 ³⁰⁵	58.26 ³⁵⁹
16	27.218 ²⁹³	51.43 ¹⁸⁵	47.402 ²⁸⁵	37.62 ²¹³	5.380 ³⁰⁰	37.33 ¹³⁵	41.300 ³⁷⁵	54.67 ³³⁰
26	27.511 ³¹⁷	53.28 ¹⁹²	47.687 ³¹⁰	35.49 ²¹³	5.680 ³²⁵	38.68 ¹⁵³	41.675 ⁴³⁴	51.37 ²⁹¹
36	27.828	55.20	47.997	33.36	6.005	40.21	42.109	48.46
Mittl. Ort	25.263	33.38	45.520	57.18	3.423	22.08	41.162	85.51
see δ , tg δ	1.004	−0.094	1.001	+0.038	1.039	−0.282	1.975	+1.703
a , a'	+3.2	−15.4	+3.0	−15.2	+3.3	−14.9	+1.5	−14.8
b , b'	0.00	+0.64	0.00	+0.65	+0.01	+0.67	−0.08	+0.67

Tag	550) β Ursae min.		551) Pi XIV, 221		552) β Lupi		555) β Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	14 ^h 50 ^m	+74° 25'	14 ^h 52 ^m	+14° 42'	14 ^h 53 ^m	-42° 51'	14 ^h 59 ^m	+40° 39'
Jan. 1	51.84 ⁷⁶	54.21 ²⁴⁶	56.785 ³¹⁷	76.81 ²³⁸	58.307 ⁴¹⁶	20.25 ⁶⁴	19.860 ³⁵¹	26.29 ²⁷³
11	52.60 ⁸³	51.75 ¹⁸⁸	57.102 ³²⁹	74.43 ²¹⁵	58.723 ⁴³⁰	20.89 ⁹⁷	20.211 ³⁷²	23.56 ²³⁰
21	53.43 ⁸⁸	49.87 ¹²⁴	57.431 ³³²	72.28 ¹⁸⁶	59.153 ⁴³²	21.86 ¹²⁶	20.583 ³⁸³	21.26 ¹⁸⁰
31	54.31 ⁸⁹	48.63 ⁵⁷	57.763 ³²⁸	70.42 ¹⁵⁰	59.585 ⁴²⁴	23.12 ¹⁵²	20.966 ³⁸²	19.46 ¹²³
Feb. 10	55.20 ⁸⁷	48.06 ¹²	58.091 ³¹³	68.92 ¹¹⁰	60.009 ⁴⁰⁶	24.64 ¹⁷²	21.348 ³⁷⁰	18.23 ⁶⁴
20	56.07 ⁸²	48.18 ⁷⁹	58.404 ²⁹⁴	67.82 ⁶⁷	60.415 ³⁸³	26.36 ¹⁸⁸	21.718 ³⁴⁹	17.59 ³
März 2	56.89 ⁷⁵	48.97 ¹⁴⁰	58.698 ²⁶⁹	67.15 ²⁶	60.798 ³⁵³	28.24 ¹⁹⁹	22.067 ³²⁰	17.56 ⁵⁵
12	57.64 ⁶⁴	50.37 ¹⁹⁵	58.967 ²⁴²	66.89 ¹⁵	61.151 ³²¹	30.23 ²⁰⁶	22.387 ²⁸⁶	18.11 ¹⁰⁹
22	58.28 ⁵³	52.32 ²⁴¹	59.209 ²¹²	67.04 ⁵²	61.472 ²⁸⁵	32.29 ²⁰⁹	22.673 ²⁴⁶	19.20 ¹⁵⁶
Apr. 1	58.81 ⁴⁰	54.73 ²⁷⁶	59.421 ¹⁸⁰	67.56 ⁸⁵	61.757 ²⁴⁹	34.38 ²⁰⁷	22.919 ²⁰⁵	20.76 ¹⁹⁵
11	59.21 ²⁶	57.49 ²⁹⁹	59.601 ¹⁵⁰	68.41 ¹¹¹	62.006 ²¹⁰	36.45 ²⁰³	23.124 ¹⁶²	22.71 ²²⁶
21	59.47 ¹¹	60.48 ³¹²	59.751 ¹¹⁸	69.52 ¹³¹	62.216 ¹⁷²	38.48 ¹⁹⁷	23.286 ¹¹⁸	24.97 ²⁴⁷
Mai 1	59.58 ²	63.60 ³¹¹	59.869 ⁸⁸	70.83 ¹⁴⁵	62.388 ¹³³	40.45 ¹⁸⁷	23.404 ⁷⁵	27.44 ²⁵⁷
10	59.56 ¹⁶	66.71 ³⁰¹	59.957 ⁵⁷	72.28 ¹⁵¹	62.521 ⁹²	42.32 ¹⁷⁵	23.479 ³³	30.01 ²⁵⁸
20	59.40 ²⁹	69.72 ²⁸¹	60.014 ²⁸	73.79 ¹⁵³	62.613 ⁵³	44.07 ¹⁵⁹	23.512 ⁷	32.59 ²⁵¹
30	59.11 ⁴⁰	72.53 ²⁵¹	60.042 ¹	75.32 ¹⁴⁷	62.666 ¹²	45.66 ¹⁴¹	23.505 ⁴⁶	35.10 ²³⁴
Juni 9	58.71 ⁵¹	75.04 ²¹⁴	60.041 ²⁹	76.79 ¹³⁸	62.678 ²⁸	47.07 ¹²¹	23.459 ⁸²	37.44 ²¹²
19	58.20 ⁵⁹	77.18 ¹⁷²	60.012 ⁵⁴	78.17 ¹²⁵	62.650 ⁶⁶	48.28 ⁹⁷	23.377 ¹¹⁵	39.56 ¹⁸²
29	57.61 ⁶⁷	78.90 ¹²⁴	59.958 ⁷⁹	79.42 ¹⁰⁷	62.584 ¹⁰²	49.25 ⁷²	23.262 ¹⁴⁵	41.38 ¹⁴⁹
Juli 9	56.94 ⁷²	80.14 ⁷⁴	59.879 ¹⁰¹	80.49 ⁸⁸	62.482 ¹³³	49.97 ⁴⁴	23.117 ¹⁷⁰	42.87 ¹¹¹
19	56.22 ⁷⁶	80.88 ²¹	59.778 ¹¹⁸	81.37 ⁶⁵	62.349 ¹⁶¹	50.41 ¹⁵	22.947 ¹⁹²	43.98 ⁷⁰
29	55.46 ⁷⁸	81.09 ³²	59.660 ¹³³	82.02 ⁴²	62.188 ¹⁸¹	50.56 ¹⁴	22.755 ²⁰⁷	44.68 ²⁷
Aug. 8	54.68 ⁷⁸	80.77 ⁸⁵	59.527 ¹⁴¹	82.44 ¹⁶	62.007 ¹⁹³	50.42 ⁴⁴	22.548 ²¹⁵	44.95 ¹⁶
18	53.90 ⁷⁶	79.92 ¹³⁶	59.386 ¹⁴⁴	82.60 ¹⁰	61.814 ¹⁹⁶	49.98 ⁷³	22.333 ²¹⁷	44.79 ⁶⁰
28	53.14 ⁷³	78.56 ¹⁸⁶	59.242 ¹⁴⁰	82.50 ³⁷	61.618 ¹⁸⁸	49.25 ⁹⁸	22.116 ²¹⁰	44.19 ¹⁰⁴
Sept. 7	52.41 ⁶⁸	76.70 ²³²	59.102 ¹²⁷	82.13 ⁶⁴	61.430 ¹⁶⁹	48.27 ¹²⁰	21.906 ¹⁹⁵	43.15 ¹⁴⁶
17	51.73 ⁶⁰	74.38 ²⁷⁴	58.975 ¹⁰⁶	81.49 ⁹³	61.261 ¹³⁹	47.07 ¹³⁸	21.711 ¹⁷¹	41.69 ¹⁸⁷
27	51.13 ⁵¹	71.64 ³¹¹	58.869 ⁷⁸	80.56 ¹²¹	61.122 ⁹⁷	45.69 ¹⁴⁹	21.540 ¹³⁷	39.82 ²²⁶
Okt. 7	50.62 ⁴⁰	68.53 ³⁴²	58.791 ⁴²	79.35 ¹⁴⁹	61.025 ⁴⁵	44.20 ¹⁵³	21.403 ⁹⁵	37.56 ²⁶⁰
17	50.22 ²⁸	65.11 ³⁶⁶	58.749 ¹	77.86 ¹⁷⁶	60.980 ¹³	42.67 ¹⁵¹	21.308 ⁴⁶	34.96 ²⁹¹
27	49.94 ¹⁴	61.45 ³⁸³	58.750 ⁴⁷	76.10 ²⁰¹	60.993 ⁷⁸	41.16 ¹³⁹	21.262 ⁹	32.05 ³¹⁶
Nov. 6	49.80 ⁰	57.62 ³⁹¹	58.797 ⁹⁷	74.09 ²²³	61.071 ¹⁴⁴	39.77 ¹²¹	21.271 ⁶⁸	28.89 ³³⁵
16	49.80 ¹⁶	53.71 ³⁹⁰	58.894 ¹⁴⁷	71.86 ²⁴⁰	61.215 ²¹⁰	38.56 ⁹⁷	21.339 ¹²⁹	25.54 ³⁴⁶
26	49.96 ³⁰	49.81 ³⁷⁷	59.041 ¹⁹⁵	69.46 ²⁵³	61.425 ²⁷¹	37.59 ⁶⁷	21.468 ¹⁸⁷	22.08 ³⁴⁸
Dez. 6	50.26 ⁴⁵	46.04 ³⁵⁴	59.236 ²³⁹	66.93 ²⁵⁸	61.696 ³²⁶	36.92 ³³	21.655 ²⁴³	18.60 ³⁴⁰
16	50.71 ⁵⁹	42.50 ³²⁰	59.475 ²⁷⁵	64.35 ²⁵⁷	62.022 ³⁷⁰	36.59 ³	21.898 ²⁹²	15.20 ³²²
26	51.30 ⁶⁹	39.30 ²⁷⁷	59.750 ³⁰⁴	61.78 ²⁴⁷	62.392 ⁴⁰³	36.62 ³⁹	22.190 ³³⁰	11.98 ²⁹⁴
36	51.99	36.53	60.054	59.31	62.795	37.01	22.520	9.04
Mittl. Ort	53.21	74.94	57.764	86.50	60.124	26.64	20.813	42.40
sec δ , tg δ	3.727	+3.591	1.034	+0.263	1.364	-0.928	1.318	+0.859
a, a'	-0.2	-14.7	+2.8	-14.6	+3.9	-14.5	+2.3	-14.2
b, b'	-0.18	+0.68	-0.01	+0.69	+0.04	+0.69	-0.04	+0.71

Tag	556) γ Scorpil		557) ψ Bootis		558) ζ Lupi		560) γ Triang. austr.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	15 ^h 0 ^m	-25° 0'	15 ^h 1 ^m	+27° 12'	15 ^h 7 ^m	-51° 50'	15 ^h 12 ^m	-68° 25'
Jan. I	0.152 ³⁴⁸	41.93 ¹²³	28.346 ³²²	43.43 ²⁶²	16.631 ⁴⁶⁹	9.34 ¹⁵	22.64 ⁷²	25.73 ⁵²
II	0.500 ³⁶¹	43.16 ¹³⁸	28.668 ³³⁹	40.81 ²²⁸	17.100 ⁴⁹⁰	9.49 ⁵⁴	23.36 ⁷⁵	25.21 ²
2I	0.861 ³⁶³	44.54 ¹⁵¹	29.007 ³⁴⁶	38.53 ¹⁸⁷	17.590 ⁴⁹⁷	10.03 ⁹²	24.11 ⁷⁸	25.19 ⁴⁷
3I	1.224 ³⁵⁶	46.05 ¹⁵⁸	29.353 ³⁴³	36.66 ¹⁴¹	18.087 ⁴⁹²	10.95 ¹²⁵	24.89 ⁷⁷	25.66 ⁹³
Feb. 10	1.580 ³⁴³	47.63 ¹⁶⁰	29.696 ³³²	35.25 ⁹¹	18.579 ⁴⁷⁷	12.20 ¹⁵⁵	25.66 ⁷⁵	26.59 ¹³⁷
20	1.923 ³²³	49.23 ¹⁵⁷	30.028 ³¹²	34.34 ³⁹	19.056 ⁴⁵³	13.75 ¹⁸¹	26.41 ⁷³	27.96 ¹⁷⁶
März 2	2.246 ²⁹⁹	50.80 ¹⁵¹	30.340 ²⁸⁸	33.95 ¹³	19.509 ⁴²²	15.56 ²⁰¹	27.14 ⁶⁸	29.72 ²¹⁰
12	2.545 ²⁷²	52.31 ¹⁴³	30.628 ²⁵⁹	34.08 ⁶¹	19.931 ³⁸⁷	17.57 ²¹⁶	27.82 ⁶²	31.82 ²³⁹
22	2.817 ²⁴³	53.74 ¹³²	30.887 ²²⁶	34.69 ¹⁰⁵	20.318 ³⁴⁷	19.73 ²²⁷	28.44 ⁵⁶	34.21 ²⁶³
Apr. I	3.060 ²¹³	55.06 ¹²⁰	31.113 ¹⁹³	35.74 ¹⁴²	20.665 ³⁰⁶	22.00 ²³³	29.00 ⁴⁹	36.84 ²⁸⁰
II	3.273 ¹⁸³	56.26 ¹⁰⁸	31.306 ¹⁵⁷	37.16 ¹⁷²	20.971 ²⁶¹	24.33 ²³⁶	29.49 ⁴¹	39.64 ²⁹²
2I	3.456 ¹⁵³	57.34 ⁹⁵	31.463 ¹²²	38.88 ¹⁹³	21.232 ²¹⁶	26.69 ²³⁵	29.90 ³³	42.56 ²⁹⁸
Mai 1	3.609 ¹²¹	58.29 ⁸⁴	31.585 ⁸⁸	40.81 ²⁰⁶	21.448 ¹⁶⁸	29.04 ²²⁹	30.23 ²⁵	45.54 ²⁹⁸
10*)	3.730 ⁹⁰	59.13 ⁷¹	31.673 ⁵³	42.87 ²¹¹	21.616 ¹¹⁹	31.33 ²²⁰	30.48 ¹⁶	48.52 ²⁹³
20	3.820 ⁵⁸	59.84 ⁶⁰	31.726 ²⁰	44.98 ²⁰⁸	21.735 ⁷⁰	33.53 ²⁰⁶	30.64 ⁷	51.45 ²⁸¹
30	3.878 ²⁶	60.44 ⁴⁸	31.746 ¹³	47.06 ¹⁹⁸	21.805 ¹⁹	35.59 ¹⁸⁹	30.71 ¹	54.26 ²⁶⁴
Juni 9	3.904 ⁵	60.92 ³⁵	31.733 ⁴³	49.04 ¹⁸³	21.824 ³⁰	37.48 ¹⁶⁷	30.70 ¹⁰	56.90 ²⁴⁰
19	3.899 ³⁶	61.27 ²³	31.690 ⁷³	50.87 ¹⁶¹	21.794 ⁷⁹	39.15 ¹⁴²	30.60 ¹⁹	59.30 ²¹⁰
29	3.863 ⁶⁵	61.50 ¹⁰	31.617 ⁹⁹	52.48 ¹³⁵	21.715 ¹²⁴	40.57 ¹¹³	30.41 ²⁷	61.40 ¹⁷⁶
Juli 9	3.798 ⁹²	61.60 ⁴	31.518 ¹²³	53.83 ¹⁰⁶	21.591 ¹⁶⁴	41.70 ⁸²	30.14 ³³	63.16 ¹³⁶
19	3.706 ¹¹⁵	61.56 ¹⁷	31.395 ¹⁴³	54.89 ⁷⁵	21.427 ¹⁹⁹	42.52 ⁴⁷	29.81 ³⁹	64.52 ⁹²
29	3.591 ¹³³	61.39 ³¹	31.252 ¹⁵⁸	55.64 ⁴¹	21.228 ²²⁶	42.99 ¹⁰	29.42 ⁴³	65.44 ⁴⁵
Aug. 8	3.458 ¹⁴⁵	61.08 ⁴³	31.094 ¹⁶⁷	56.05 ⁵	21.002 ²⁴³	43.09 ²⁶	28.99 ⁴⁶	65.89 ³
18	3.313 ¹⁴⁹	60.65 ⁵⁴	30.927 ¹⁷¹	56.10 ³⁰	20.759 ²⁴⁸	42.83 ⁶²	28.53 ⁴⁷	65.86 ⁵¹
28	3.164 ¹⁴⁵	60.11 ⁶⁴	30.756 ¹⁶⁷	55.80 ⁶⁷	20.511 ²⁴²	42.21 ⁹⁷	28.06 ⁴⁵	65.35 ⁹⁸
Sept. 7	3.019 ¹³²	59.47 ⁷⁰	30.589 ¹⁵⁴	55.13 ¹⁰³	20.269 ²²¹	41.24 ¹²⁷	27.61 ⁴¹	64.37 ¹⁴³
17	2.887 ¹¹⁰	58.77 ⁷³	30.435 ¹³³	54.10 ¹³⁹	20.048 ¹⁸⁷	39.97 ¹⁵⁴	27.20 ³⁶	62.94 ¹⁸²
27	2.777 ⁷⁷	58.04 ⁷¹	30.302 ¹⁰⁵	52.71 ¹⁷²	19.861 ¹⁴⁰	38.43 ¹⁷⁴	26.84 ²⁹	61.12 ²¹⁴
Okt. 7	2.700 ³⁶	57.33 ⁶⁴	30.197 ⁶⁸	50.99 ²⁰⁵	19.721 ⁸¹	36.69 ¹⁸⁶	26.55 ¹⁸	58.98 ²³⁸
17	2.664 ¹⁰	56.69 ⁵³	30.129 ²³	48.94 ²³⁵	19.640 ¹³	34.83 ¹⁹¹	26.37 ⁷	56.60 ²⁵³
27	2.674 ⁶³	56.16 ³⁷	30.106 ²⁶	46.59 ²⁶⁰	19.627 ⁶¹	32.92 ¹⁸⁶	26.30 ⁴	54.07 ²⁵⁷
Nov. 6	2.737 ¹¹⁸	55.79 ¹⁷	30.132 ⁷⁸	43.99 ²⁸²	19.688 ¹⁴⁰	31.06 ¹⁷⁴	26.34 ¹⁷	51.50 ²⁵⁰
16	2.855 ¹⁷³	55.62 ⁷	30.210 ¹³²	41.17 ²⁹⁷	19.828 ²¹⁷	29.32 ¹⁵²	26.51 ³⁰	49.00 ²³³
26	3.028 ²²⁵	55.69 ³²	30.342 ¹⁸³	38.20 ³⁰⁵	20.045 ²⁹⁰	27.80 ¹²⁴	26.81 ⁴¹	46.67 ²⁰⁶
Dez. 6	3.253 ²⁷⁰	56.01 ⁵⁹	30.525 ²³¹	35.15 ³⁰⁴	20.335 ³⁵⁵	26.56 ⁹⁰	27.22 ⁵²	44.61 ¹⁷²
16	3.523 ³⁰⁸	56.60 ⁸⁵	30.756 ²⁷³	32.11 ²⁹⁵	20.690 ⁴¹⁰	25.66 ⁵²	27.74 ⁶²	42.89 ¹³⁰
26	3.831 ³³⁶	57.45 ¹⁰⁷	31.029 ³⁰⁵	29.16 ²⁷⁶	21.100 ⁴⁵³	25.14 ¹²	28.36 ⁶⁹	41.59 ⁸⁴
36	4.167	58.52	31.334	26.40	21.553	25.02	29.05	40.75
Mittl. Ort	1.573	43.41	29.324	56.51	18.892	16.70	26.45	35.35
sec δ , tg δ	1.104	-0.467	1.124	+0.514	1.618	-1.272	2.720	-2.529
a, a'	+3.5	-14.2	+2.6	-14.1	+4.3	-13.7	+5.6	-13.4
b, b'	+0.02	+0.71	-0.02	+0.71	+0.06	+0.73	+0.11	+0.74

*) Bei Stern 560) lies Mai II

Tag	563) δ Bootis		564) β Librae		565) γ H. Ursae min.		566) φ^1 Lupi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	15 ^h 12 ^m	+33° 33'	15 ^h 13 ^m	—9° 7'	15 ^h 13 ^m	+67° 35'	15 ^h 17 ^m	—36° 0'
Jan. I	42.221 ³²⁴	62.01 ²⁷⁵	16.197 ³¹⁵	49.80 ¹⁷¹	48.89 ⁵⁴	70.58 ²⁸⁰	23.489 ³⁷⁴	41.52 ⁶⁵
II	42.545 ³⁴⁶	59.26 ²³⁸	16.512 ³³⁰	51.51 ¹⁷¹	49.43 ⁶⁰	67.78 ²²⁶	23.863 ³⁹¹	42.17 ⁹²
21	42.891 ³⁵⁷	56.88 ¹⁹³	16.842 ³³⁴	53.22 ¹⁶⁷	50.03 ⁶³	65.52 ¹⁶⁵	24.254 ³⁹⁷	43.09 ¹¹⁵
31	43.248 ³⁵⁷	54.95 ¹⁴²	17.176 ³³⁰	54.89 ¹⁵⁶	50.66 ⁶⁵	63.87 ⁹⁹	24.651 ³⁹⁴	44.24 ¹³³
Feb. 10	43.605 ³⁴⁹	53.53 ⁸⁷	17.506 ³²⁰	56.45 ¹⁴¹	51.31 ⁶⁵	62.88 ³¹	25.045 ³⁸³	45.57 ¹⁴⁸
20	43.954 ³³²	52.66 ³¹	17.826 ³⁰⁴	57.86 ¹²²	51.96 ⁶²	62.57 ³⁷	25.428 ³⁶⁵	47.05 ¹⁵⁷
März 2	44.286 ³⁰⁷	52.35 ²⁵	18.130 ²⁸³	59.08 ¹⁰⁰	52.58 ⁵⁷	62.94 ¹⁰²	25.793 ³⁴²	48.62 ¹⁶³
12	44.593 ²⁷⁸	52.60 ⁷⁸	18.413 ²⁵⁹	60.08 ⁷⁸	53.15 ⁵¹	63.96 ¹⁶¹	26.135 ³¹⁵	50.25 ¹⁶⁵
22	44.871 ²⁴⁵	53.38 ¹²⁵	18.672 ²³³	60.86 ⁹⁶	53.66 ⁴⁴	65.57 ²¹³	26.450 ²⁸⁶	51.90 ¹⁶⁵
Apr. I	45.116 ²⁰⁹	54.63 ¹⁶⁵	18.905 ²⁰⁶	61.42 ³⁵	54.10 ³⁵	67.70 ²⁵⁴	26.736 ²⁵⁵	53.55 ¹⁶²
11	45.325 ¹⁷²	56.28 ¹⁹⁷	19.111 ¹⁷⁹	61.77 ¹⁴	54.45 ²⁶	70.24 ²⁸⁵	26.991 ²²²	55.17 ¹⁵⁷
21	45.497 ¹³⁴	58.25 ²²⁰	19.290 ¹⁵¹	61.91 ²	54.71 ¹⁶	73.09 ³⁰⁴	27.213 ¹⁸⁹	56.74 ¹⁵⁰
Mai I	45.631 ⁹⁶	60.45 ²³⁴	19.441 ¹²²	61.89 ¹⁵	54.87 ⁷	76.13 ³¹²	27.402 ¹⁵⁴	58.24 ¹⁴²
11	45.727 ⁵⁸	62.79 ²³⁹	19.563 ⁹⁴	61.74 ²⁶	54.94 ³	79.25 ³⁰⁹	27.556 ¹¹⁸	59.66 ¹³²
20	45.785 ²¹	65.18 ²³⁵	19.657 ⁶⁴	61.48 ³⁴	54.91 ¹²	82.34 ²⁹⁶	27.674 ⁸¹	60.98 ¹²¹
30	45.806 ¹⁵	67.53 ²²⁴	19.721 ³⁵	61.14 ³⁹	54.79 ²⁰	85.30 ²⁷²	27.755 ⁴³	62.19 ¹⁰⁸
Juni 9	45.791 ⁴⁹	69.77 ²⁰⁷	19.756 ⁵	60.75 ⁴³	54.59 ²⁸	88.02 ²⁴²	27.798 ⁵	63.27 ⁹³
19	45.742 ⁸¹	71.84 ¹⁸²	19.761 ²⁵	60.32 ⁴⁵	54.31 ³⁵	90.44 ²⁰⁵	27.803 ³²	64.20 ⁷⁷
29	45.661 ¹¹¹	73.66 ¹⁵³	19.736 ⁵²	59.87 ⁴⁵	53.96 ⁴¹	92.49 ¹⁶¹	27.771 ⁶⁷	64.97 ⁵⁸
Juli 9	45.550 ¹³⁸	75.19 ¹²⁰	19.684 ⁷⁷	59.42 ⁴⁵	53.55 ⁴⁶	94.10 ¹¹³	27.704 ¹⁰¹	65.55 ³⁸
19	45.412 ¹⁶⁰	76.39 ⁸⁴	19.607 ¹⁰⁰	58.97 ⁴³	53.09 ⁵⁰	95.23 ⁶⁴	27.603 ¹²⁹	65.93 ¹⁶
29	45.252 ¹⁷⁸	77.23 ⁴⁶	19.507 ¹¹⁹	58.54 ⁴¹	52.59 ⁵²	95.87 ¹¹	27.474 ¹⁵³	66.09 ⁷
Aug. 8	45.074 ¹⁸⁹	77.69 ⁷	19.388 ¹³¹	58.13 ³⁸	52.07 ⁵⁴	95.98 ⁴¹	27.321 ¹⁶⁹	66.02 ²⁹
18	44.885 ¹⁹³	77.76 ³⁴	19.257 ¹³⁸	57.75 ³³	51.53 ⁵⁴	95.57 ⁹³	27.152 ¹⁷⁷	65.73 ⁵¹
28	44.692 ¹⁹⁰	77.42 ⁷⁴	19.119 ¹³⁷	57.42 ²⁷	50.99 ⁵²	94.64 ¹⁴⁴	26.975 ¹⁷⁵	65.22 ⁷¹
Sept. 7	44.502 ¹⁷⁹	76.68 ¹¹⁴	18.982 ¹²⁷	57.15 ¹⁹	50.47 ⁴⁹	93.20 ¹⁹³	26.800 ¹⁶³	64.51 ⁸⁹
17	44.323 ¹⁵⁸	75.54 ¹⁵³	18.855 ¹⁰⁹	56.96 ⁹	49.98 ⁴⁵	91.27 ²³⁸	26.637 ¹⁴⁰	63.62 ¹⁰³
27	44.165 ¹³⁰	74.01 ¹⁹¹	18.746 ⁸²	56.87 ⁴	49.53 ³⁹	88.89 ²⁸⁰	26.497 ¹⁰⁶	62.59 ¹¹²
Okt. 7	44.035 ⁹¹	72.10 ²²⁵	18.664 ⁴⁷	56.91 ²⁰	49.14 ³¹	86.09 ³¹⁶	26.391 ⁶²	61.47 ¹¹⁵
17	43.944 ⁴⁷	69.85 ²⁵⁷	18.617 ⁵	57.11 ³⁷	48.83 ²³	82.93 ³⁴⁷	26.329 ¹⁰	60.32 ¹¹²
27	43.897 ⁴	67.28 ²⁸⁴	18.612 ⁴³	57.48 ⁵⁷	48.60 ¹³	79.46 ³⁷⁰	26.319 ⁴⁷	59.20 ¹⁰³
Nov. 6	43.901 ⁵⁹	64.44 ³⁰⁶	18.655 ⁹³	58.05 ⁷⁹	48.47 ³	75.76 ³⁸⁵	26.366 ¹⁰⁸	58.17 ⁸⁷
16	43.960 ¹¹⁵	61.38 ³²¹	18.748 ¹⁴⁴	58.84 ¹⁰¹	48.44 ⁸	71.91 ³⁹¹	26.474 ¹⁶⁹	57.30 ⁶⁷
26	44.075 ¹⁷¹	58.17 ³²⁷	18.892 ¹⁹²	59.85 ¹²¹	48.52 ¹⁹	68.00 ³⁸⁶	26.643 ²²⁸	56.63 ⁴¹
Dez. 6	44.246 ²²²	54.90 ³²⁵	19.084 ²³⁶	61.06 ¹³⁹	48.71 ³⁰	64.14 ³⁷¹	26.871 ²⁸⁰	56.22 ¹⁴
16	44.468 ²⁶⁸	51.65 ³¹⁴	19.320 ²⁷³	62.45 ¹⁵⁴	49.01 ⁴⁰	60.43 ³⁴⁴	27.151 ³²⁵	56.08 ¹⁷
26	44.736 ³⁰⁶	48.51 ²⁹¹	19.593 ³⁰²	63.99 ¹⁶⁵	49.41 ⁴⁹	56.99 ³⁰⁶	27.476 ³⁵⁹	56.25 ⁴⁶
36	45.042	45.60	19.895	65.64	49.90	53.93	27.835	56.71
Mittl. Ort	43.261	76.60	17.460	46.27	50.36	90.40	25.224	44.77
sec δ , tg δ	1.200	+0.664	1.013	—0.161	2.625	+2.427	1.236	—0.727
a , a'	+2.4	—13.4	+3.2	—13.3	+0.6	—13.3	+3.8	—13.1
b , b'	—0.03	+0.75	+0.01	+0.75	—0.11	+0.75	+0.03	+0.76

Tag	569) γ Ursae min.		568) μ Bootis		571) ϵ Draconis		572) β Coron. bor.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	15 ^h 20 ^m	+72° 4'	15 ^h 21 ^m	+37° 36'	15 ^h 23 ^m	+59° 11'	15 ^h 24 ^m	+29° 20'
Jan. I	47.59 ₆₂	26.25 ₂₇₉	51.893 ₃₂₅	50.29 ₂₈₃	22.199 ₄₂₀	67.30 ₂₉₃	57.929 ₃₀₈	19.46 ₂₇₄
II	48.21 ₆₉	23.46 ₂₂₆	52.218 ₃₅₀	47.46 ₂₄₅	22.619 ₄₆₄	64.37 ₂₄₃	58.237 ₃₃₀	16.72 ₂₄₀
21	48.90 ₇₅	21.20 ₁₆₆	52.568 ₃₆₄	45.01 ₁₉₈	23.083 ₄₉₄	61.94 ₁₈₆	58.567 ₃₄₃	14.32 ₂₀₀
31	49.65 ₇₈	19.54 ₁₀₀	52.932 ₃₆₈	43.03 ₁₄₅	23.577 ₅₀₇	60.08 ₁₂₂	58.910 ₃₄₅	12.32 ₁₅₃
Feb. 10	50.43 ₇₇	18.54 ₃₂	53.300 ₃₆₁	41.58 ₈₇	24.084 ₅₀₃	58.86 ₅₅	59.255 ₃₃₉	10.79 ₁₀₁
20	51.20 ₇₅	18.22 ₃₇	53.661 ₃₄₆	40.71 ₂₈	24.587 ₄₈₆	58.31 ₁₂	59.594 ₃₂₄	9.78 ₄₇
März 2	51.95 ₇₀	18.59 ₁₀₂	54.007 ₃₂₂	40.43 ₃₀	25.073 ₄₅₃	58.43 ₇₈	59.918 ₃₀₃	9.31 ₇
12	52.65 ₆₃	19.61 ₁₆₂	54.329 ₂₉₄	40.73 ₈₆	25.526 ₄₁₀	59.21 ₁₃₈	60.221 ₂₇₇	9.38 ₅₉
22	53.28 ₅₃	21.23 ₂₁₃	54.623 ₂₆₀	41.59 ₁₃₅	25.936 ₃₅₇	60.59 ₁₉₁	60.498 ₂₄₈	9.97 ₁₀₅
Apr. I	53.81 ₄₃	23.36 ₂₅₆	54.883 ₂₂₃	42.94 ₁₇₇	26.293 ₂₉₆	62.50 ₂₃₅	60.746 ₂₁₅	11.02 ₁₄₅
II	54.24 ₃₂	25.92 ₂₈₇	55.106 ₁₈₄	44.71 ₂₁₁	26.589 ₂₃₁	64.85 ₂₇₀	60.961 ₁₈₂	12.47 ₁₇₉
21	54.56 ₂₀	28.79 ₃₀₇	55.290 ₁₄₄	46.82 ₂₃₅	26.820 ₁₆₃	67.55 ₂₉₃	61.143 ₁₄₆	14.26 ₂₀₃
Mai I	54.76 ₈	31.86 ₃₁₆	55.434 ₁₀₃	49.18 ₂₅₁	26.983 ₉₄	70.48 ₃₀₅	61.289 ₁₁₁	16.29 ₂₁₉
II	54.84 ₄	35.02 ₃₁₃	55.537 ₆₂	51.69 ₂₅₆	27.077 ₂₆	73.53 ₃₀₇	61.400 ₇₅	18.48 ₂₂₇
20	54.80 ₁₆	38.15 ₃₀₀	55.599 ₂₃	54.25 ₂₅₃	27.103 ₄₁	76.60 ₂₉₇	61.475 ₃₉	20.75 ₂₂₇
30	54.64 ₂₇	41.15 ₂₇₇	55.622 ₁₆	56.78 ₂₄₁	27.062 ₁₀₄	79.57 ₂₇₉	61.514 ₅	23.02 ₂₁₈
Juni 9	54.37 ₃₇	43.92 ₂₄₇	55.606 ₅₃	59.19 ₂₂₃	26.958 ₁₆₃	82.36 ₂₅₂	61.519 ₃₀	25.20 ₂₀₃
19	54.00 ₄₅	46.39 ₂₀₉	55.553 ₈₈	61.42 ₁₉₇	26.795 ₂₁₇	84.88 ₂₁₈	61.489 ₆₂	27.23 ₁₈₂
29	53.55 ₅₃	48.48 ₁₆₆	55.465 ₁₂₁	63.39 ₁₆₇	26.578 ₂₆₅	87.06 ₁₇₉	61.427 ₉₃	29.05 ₁₅₇
Juli 9	53.02 ₆₀	50.14 ₁₁₉	55.344 ₁₅₀	65.06 ₁₃₂	26.313 ₃₀₆	88.85 ₁₃₄	61.334 ₁₂₁	30.62 ₁₂₇
19	52.42 ₆₄	51.33 ₆₉	55.194 ₁₇₄	66.38 ₉₄	26.007 ₃₃₉	90.19 ₈₇	61.213 ₁₄₄	31.89 ₉₄
29	51.78 ₆₈	52.02 ₁₆	55.020 ₁₉₄	67.32 ₅₃	25.668 ₃₆₄	91.06 ₃₇	61.069 ₁₆₄	32.83 ₅₉
Aug. 8	51.10 ₆₉	52.18 ₃₆	54.826 ₂₀₇	67.85 ₁₂	25.304 ₃₇₉	91.43 ₁₄	60.905 ₁₇₇	33.42 ₂₃
18	50.41 ₇₀	51.82 ₈₉	54.619 ₂₁₃	67.97 ₃₁	24.925 ₃₈₃	91.29 ₆₅	60.728 ₁₈₄	33.65 ₁₅
28	49.71 ₆₇	50.93 ₁₄₀	54.406 ₂₁₁	67.66 ₇₅	24.542 ₃₇₆	90.64 ₁₁₆	60.544 ₁₈₄	33.50 ₅₄
Sept. 7	49.04 ₆₄	49.53 ₁₈₉	54.195 ₂₀₀	66.91 ₁₁₇	24.166 ₃₅₈	89.48 ₁₆₄	60.360 ₁₇₅	32.96 ₉₂
17	48.40 ₅₉	47.64 ₂₃₅	53.995 ₁₈₀	65.74 ₁₅₈	23.808 ₃₂₈	87.84 ₂₁₁	60.185 ₁₅₇	32.04 ₁₃₀
27	47.81 ₅₂	45.29 ₂₇₇	53.815 ₁₅₁	64.16 ₁₉₇	23.480 ₂₈₅	85.73 ₂₅₄	60.028 ₁₃₀	30.74 ₁₆₆
Okt. 7	47.29 ₄₄	42.52 ₃₁₃	53.664 ₁₁₃	62.19 ₂₃₄	23.195 ₂₃₀	83.19 ₂₉₃	59.898 ₉₆	29.08 ₂₀₀
17	46.85 ₃₃	39.39 ₃₄₄	53.551 ₆₈	59.85 ₂₆₇	22.965 ₁₆₆	80.26 ₃₂₆	59.802 ₅₃	27.08 ₂₃₃
27	46.52 ₂₁	35.95 ₃₆₇	53.483 ₁₅	57.18 ₂₉₅	22.799 ₉₂	77.00 ₃₅₃	59.749 ₄	24.75 ₂₆₀
Nov. 6	46.31 ₈	32.28 ₃₈₃	53.468 ₄₂	54.23 ₃₁₇	22.707 ₁₁	73.47 ₃₇₂	59.745 ₄₉	22.15 ₂₈₄
16	46.23 ₄	28.45 ₃₈₉	53.510 ₁₀₀	51.06 ₃₃₃	22.696 ₇₄	69.75 ₃₈₃	59.794 ₁₀₃	19.31 ₃₀₁
26	46.27 ₁₈	24.56 ₃₈₅	53.610 ₁₅₉	47.73 ₃₄₀	22.770 ₁₅₈	65.92 ₃₈₂	59.897 ₁₅₇	16.30 ₃₁₁
Dez. 6	46.45 ₃₂	20.71 ₃₆₉	53.769 ₂₁₃	44.33 ₃₃₇	22.928 ₂₄₁	62.10 ₃₇₂	60.054 ₂₀₇	13.19 ₃₁₃
16	46.77 ₄₄	17.02 ₃₄₄	53.982 ₂₆₂	40.96 ₃₂₄	23.169 ₃₁₇	58.38 ₃₅₀	60.261 ₂₅₂	10.06 ₃₀₅
26	47.21 ₅₅	13.58 ₃₀₆	54.244 ₃₀₄	37.72 ₃₀₁	23.486 ₃₈₂	54.88 ₃₁₆	60.513 ₂₉₀	7.01 ₂₈₇
36	47.76	10.52	54.548	34.71	23.868	51.72	60.803	4.14
Mittl. Ort	49.42	46.22	53.000	65.69	23.535	86.09	59.043	33.12
sec δ , tg δ	3.250	+3.092	1.262	+0.771	1.953	+1.678	1.147	+0.562
a , a'	-0.1	-12.8	+2.3	-12.8	+1.3	-12.7	+2.5	-12.5
b , b'	-0.13	+0.77	-0.03	+0.77	-0.07	+0.78	-0.02	+0.78

Tag	573) ν^1 Bootis		575) γ Lupi		577) γ Librae		578) α Coron. bor.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	15 ^b 28 ^m	+41° 3'	15 ^b 30 ^m	—40° 56'	15 ^b 31 ^m	—14° 33'	15 ^b 31 ^m	+26° 56'
Jan. I	25.862 ³²⁷	46.61 ²⁹¹	30.096 ³⁸⁷	7.28 ³²	38.374 ³¹³	41.15 ¹⁴¹	44.802 ³⁰¹	31.90 ²⁷²
II	26.189 ³⁵⁶	43.70 ²⁵¹	30.483 ⁴⁰⁹	7.60 ⁶²	38.687 ³³⁰	42.56 ¹⁴⁷	45.103 ³²⁴	29.18 ²⁴¹
21	26.545 ³⁷⁴	41.19 ²⁰²	30.892 ⁴¹⁹	8.22 ⁸⁹	39.017 ³³⁸	44.03 ¹⁴⁹	45.427 ³³⁷	26.77 ²⁰³
31	26.919 ³⁷⁹	39.17 ¹⁴⁸	31.311 ⁴¹⁸	9.11 ¹¹²	39.355 ³³⁸	45.52 ¹⁴⁴	45.764 ³³⁹	24.74 ¹⁵⁸
Feb. 10	27.298 ³⁷⁴	37.69 ⁸⁸	31.729 ⁴¹⁰	10.23 ¹³²	39.693 ³³⁰	46.96 ¹³⁶	46.103 ³³⁵	23.16 ¹⁰⁸
20	27.672 ³⁶⁰	36.81 ²⁶	32.139 ³⁹⁴	11.55 ¹⁴⁷	40.023 ³¹⁶	48.32 ¹²²	46.438 ³²²	22.08 ⁵⁶
März 2	28.032 ³³⁸	36.55 ³³	32.533 ³⁷¹	13.02 ¹⁵⁹	40.339 ²⁹⁸	49.54 ¹⁰⁶	46.760 ³⁰²	21.52 ³
12	28.370 ³⁰⁹	36.88 ⁹¹	32.904 ³⁴⁶	14.61 ¹⁶⁶	40.637 ²⁷⁷	50.60 ⁹⁰	47.062 ²⁷⁹	21.49 ⁴⁷
22	28.679 ²⁷⁴	37.79 ¹⁴²	33.250 ³¹⁷	16.27 ¹⁷¹	40.914 ²⁵³	51.50 ⁷²	47.341 ²⁵⁰	21.96 ⁹⁴
April I	28.953 ²³⁶	39.21 ¹⁸⁶	33.567 ²⁸⁵	17.98 ¹⁷²	41.167 ²²⁸	52.22 ⁵⁴	47.591 ²²⁰	22.90 ¹³⁴
II	29.189 ¹⁹⁵	41.07 ²²¹	33.852 ²⁵²	19.70 ¹⁷²	41.395 ²⁰¹	52.76 ³⁸	47.811 ¹⁸⁷	24.24 ¹⁶⁷
21	29.384 ¹⁵³	43.28 ²⁴⁷	34.104 ²¹⁶	21.42 ¹⁶⁹	41.596 ¹⁷⁴	53.14 ²⁴	47.998 ¹⁵⁴	25.91 ¹⁹⁵
Mai I	29.537 ¹¹⁰	45.75 ²⁶³	34.320 ¹⁷⁹	23.11 ¹⁶⁴	41.770 ¹⁴⁵	53.38 ¹¹	48.152 ¹¹⁹	27.84 ²⁰⁹
II	29.647 ⁶⁶	48.38 ²⁶⁸	34.499 ¹⁴⁰	24.75 ¹⁵⁷	41.915 ¹¹⁶	53.49 ²	48.271 ⁸⁵	29.93 ²¹⁹
20	29.713 ²⁴	51.06 ²⁶⁶	34.639 ¹⁰⁰	26.32 ¹⁴⁷	42.031 ⁸⁵	53.51 ⁶	48.356 ⁵⁰	32.12 ²¹⁹
30	29.737 ¹⁸	53.72 ²⁵³	34.739 ⁵⁸	27.79 ¹³⁵	42.116 ⁵⁴	53.45 ¹³	48.406 ¹⁵	34.31 ²¹²
Juni 9	29.719 ⁵⁸	56.25 ²³⁴	34.797 ¹⁷	29.14 ¹²¹	42.170 ²²	53.32 ¹⁸	48.421 ¹⁹	36.43 ¹⁹⁹
19	29.661 ⁹⁵	58.59 ²⁰⁹	34.814 ²⁶	30.35 ¹⁰³	42.192 ¹⁰	53.14 ²²	48.402 ⁵¹	38.42 ¹⁸¹
29	29.566 ¹³¹	60.68 ¹⁷⁶	34.788 ⁶⁶	31.38 ⁸³	42.182 ⁴⁰	52.92 ²⁶	48.351 ⁸²	40.23 ¹⁵⁶
Juli 9	29.435 ¹⁶²	62.44 ¹⁴⁰	34.722 ¹⁰³	32.21 ⁶²	42.142 ⁷⁰	52.66 ²⁸	48.269 ¹¹¹	41.79 ¹²⁹
19	29.273 ¹⁸⁸	63.84 ¹⁰¹	34.619 ¹³⁷	32.83 ³⁷	42.072 ⁹⁵	52.38 ³⁰	48.158 ¹³⁵	43.08 ⁹⁷
29	29.085 ²⁰⁹	64.85 ⁵⁸	34.482 ¹⁶⁴	33.20 ¹¹	41.977 ¹¹⁸	52.08 ³³	48.023 ¹⁵⁶	44.05 ⁶⁵
Aug. 8	28.876 ²²³	65.43 ¹⁵	34.318 ¹⁸⁴	33.31 ¹⁵	41.859 ¹³³	51.75 ³⁴	47.867 ¹⁷¹	44.70 ²⁹
18	28.653 ²³¹	65.58 ³¹	34.134 ¹⁹⁵	33.16 ⁴²	41.726 ¹⁴³	51.41 ³⁵	47.696 ¹⁷⁹	44.99 ⁷
28	28.422 ²³⁰	65.27 ⁷⁵	33.939 ¹⁹⁶	32.74 ⁶⁷	41.583 ¹⁴⁵	51.06 ³⁴	47.517 ¹⁷⁹	44.92 ⁴³
Sept. 7	28.192 ²¹⁹	64.52 ¹¹⁹	33.743 ¹⁸⁴	32.07 ⁹⁰	41.438 ¹³⁸	50.72 ³²	47.338 ¹⁷²	44.49 ⁸¹
17	27.973 ²⁰⁰	63.33 ¹⁶²	33.559 ¹⁶²	31.17 ¹⁰⁹	41.300 ¹²²	50.40 ²⁷	47.166 ¹⁵⁵	43.68 ¹¹⁸
27	27.773 ¹⁷⁰	61.71 ²⁰³	33.397 ¹²⁸	30.08 ¹²⁴	41.178 ⁹⁶	50.13 ¹⁹	47.011 ¹³¹	42.50 ¹⁵⁸
Okt. 7	27.603 ¹³¹	59.68 ²⁴²	33.269 ⁸³	28.84 ¹³²	41.082 ⁶²	49.94 ⁸	46.880 ⁹⁶	40.97 ¹⁸⁷
17	27.472 ⁸⁵	57.26 ²⁷⁵	33.186 ²⁹	27.52 ¹³⁵	41.020 ²⁰	49.86 ⁵	46.784 ⁵⁵	39.10 ²¹⁹
27	27.387 ³¹	54.51 ³⁰⁴	33.157 ³²	26.17 ¹³⁰	41.000 ²⁷	49.91 ²¹	46.729 ⁸	36.91 ²⁴⁸
Nov. 6	27.356 ²⁷	51.47 ³²⁷	33.189 ⁹⁶	24.87 ¹¹⁹	41.027 ⁷⁹	50.12 ⁴¹	46.721 ⁴⁵	34.43 ²⁷¹
16	27.383 ⁸⁹	48.20 ³⁴³	33.285 ¹⁶²	23.68 ¹⁰⁰	41.106 ¹³⁰	50.53 ⁶¹	46.766 ⁹⁸	31.72 ²⁹⁰
26	27.472 ¹⁵⁰	44.77 ³⁴⁹	33.447 ²²⁵	22.68 ⁷⁸	41.236 ¹⁸¹	51.14 ⁸¹	46.864 ¹⁵⁰	28.82 ³⁰²
Dez. 6	27.622 ²⁰⁷	41.28 ³⁴⁷	33.672 ²⁸²	21.90 ⁵⁰	41.417 ²²⁷	51.95 ¹⁰²	47.014 ²⁰¹	25.80 ³⁰⁴
16	27.829 ²⁶⁰	37.81 ³³³	33.954 ³³¹	21.40 ²⁰	41.644 ²⁶⁷	52.97 ¹¹⁹	47.215 ²⁴⁶	22.76 ²⁹⁵
26	28.089 ³⁰⁴	34.48 ³⁰⁹	34.285 ³⁷⁰	21.20 ¹²	41.911 ²⁹⁹	54.16 ¹³³	47.461 ²⁸²	19.77 ²⁸⁴
36	28.393	31.39	34.655	21.32	42.210	55.49	47.743	16.93
Mittl. Ort	27.027	62.60	32.032	10.76	39.777	38.29	45.955	45.04
sec δ , tg δ	1.326	+0.871	1.324	—0.867	1.033	—0.260	1.122	+0.508
a, a'	+2.2	—12.3	+4.0	—12.2	+3.3	—12.1	+2.5	—12.1
b, b'	—0.04	+0.79	+0.04	+0.79	+0.01	+0.80	—0.02	+0.80

Tag	582) α Serpentis		583) β Serpentis		584) γ Serpentis		585) μ Serpentis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	15 ^h 40 ^m	+6° 38'	15 ^h 42 ^m	+15° 37'	15 ^h 45 ^m	+18° 20'	15 ^h 45 ^m	-3° 13'
Jan. I	50.805 ²⁸⁹	21.03 ²¹⁷	58.909 ²⁸⁷	61.00 ²⁴⁶	36.755 ²⁸⁶	61.19 ²⁵⁴	59.667 ²⁹¹	19.49 ¹⁸⁰
II	51.094 ³⁰⁹	18.86 ²⁰⁴	59.196 ³⁰⁸	58.54 ²²⁵	37.041 ³⁰⁸	58.65 ²³¹	59.958 ³¹¹	21.29 ¹⁷⁶
21	51.403 ³¹⁹	16.82 ¹⁸⁴	59.504 ³²¹	56.29 ¹⁹⁷	37.349 ³²¹	56.34 ²⁰¹	60.269 ³²¹	23.05 ¹⁶⁶
31	51.722 ³²²	14.98 ¹⁵⁸	59.825 ³²⁵	54.32 ¹⁶²	37.670 ³²⁶	54.33 ¹⁶⁴	60.590 ³²⁴	24.71 ¹⁵⁰
Feb. 10	52.044 ³¹⁶	13.40 ¹²⁶	60.150 ³²⁰	52.70 ¹²³	37.996 ³²²	52.69 ¹²²	60.914 ³¹⁹	26.21 ¹²⁸
20	52.360 ³⁰⁵	12.14 ⁹²	60.470 ³⁰⁹	51.47 ⁷⁹	38.318 ³¹²	51.47 ⁷⁶	61.233 ³⁰⁸	27.49 ¹⁰⁴
März 2	52.665 ²⁸⁹	11.22 ⁵⁵	60.779 ²⁹³	50.68 ³⁵	38.630 ²⁹⁶	50.71 ²⁹	61.541 ²⁹³	28.53 ⁷⁷
12	52.954 ²⁶⁹	10.67 ¹⁹	61.072 ²⁷²	50.33 ⁹	38.926 ²⁷⁶	50.42 ¹⁶	61.834 ²⁷³	29.30 ⁴⁹
22	53.223 ²⁴⁶	10.48 ¹⁶	61.344 ²⁴⁹	50.42 ⁵⁰	39.202 ²⁵¹	50.58 ⁵⁹	62.107 ²⁵²	29.79 ²²
Apr. I	53.469 ²²¹	10.64 ⁴⁸	61.593 ²²³	50.92 ⁸⁶	39.453 ²²⁶	51.17 ⁹⁶	62.359 ²²⁹	30.01 ⁴
II	53.690 ¹⁹⁴	11.12 ⁷⁴	61.816 ¹⁹⁴	51.78 ¹¹⁷	39.679 ¹⁹⁷	52.13 ¹²⁹	62.588 ²⁰³	29.97 ²⁵
21	53.884 ¹⁶⁷	11.86 ⁹⁶	62.010 ¹⁶⁶	52.95 ¹⁴¹	39.876 ¹⁶⁷	53.42 ¹⁵⁵	62.791 ¹⁷⁷	29.72 ⁴⁴
Mai I	54.051 ¹³⁸	12.82 ¹¹²	62.176 ¹³⁶	54.36 ¹⁵⁹	40.043 ¹³⁶	54.97 ¹⁷²	62.968 ¹⁴⁹	29.28 ⁵⁸
II	54.189 ¹⁰⁹	13.94 ¹²³	62.312 ¹⁰⁴	55.95 ¹⁷⁰	40.179 ¹⁰⁵	56.69 ¹⁸⁴	63.117 ¹²⁰	28.70 ⁶⁹
20	54.298 ⁷⁸	15.17 ¹²⁸	62.416 ⁷³	57.65 ¹⁷⁴	40.284 ⁷³	58.53 ¹⁸⁷	63.237 ⁹¹	28.01 ⁷⁶
30	54.376 ⁴⁸	16.45 ¹²⁸	62.489 ⁴⁰	59.39 ¹⁷¹	40.357 ³⁹	60.40 ¹⁸⁴	63.328 ⁵⁹	27.25 ⁷⁹
Juni 9	54.424 ¹⁶	17.73 ¹²⁵	62.529 ⁸	61.10 ¹⁶⁴	40.396 ⁶	62.24 ¹⁷⁶	63.387 ²⁸	26.46 ⁷⁸
19	54.440 ¹⁴	18.98 ¹¹⁷	62.537 ²³	62.74 ¹⁵²	40.402 ²⁶	64.00 ¹⁶³	63.415 ³	25.68 ⁷⁶
29	54.426 ⁴⁴	20.15 ¹⁰⁶	62.514 ⁵⁴	64.26 ¹³⁵	40.376 ⁵⁷	65.63 ¹⁴⁴	63.412 ³⁴	24.92 ⁷¹
Juli 9	54.382 ⁷³	21.21 ⁹²	62.460 ⁸³	65.61 ¹¹⁵	40.319 ⁸⁶	67.07 ¹²²	63.378 ⁶⁴	24.21 ⁶⁵
19	54.309 ⁹⁸	22.13 ⁷⁶	62.377 ¹⁰⁹	66.76 ⁹²	40.233 ¹¹³	68.29 ⁹⁸	63.314 ⁹⁰	23.56 ⁵⁷
29	54.211 ¹¹⁹	22.89 ⁵⁹	62.268 ¹³¹	67.68 ⁶⁸	40.120 ¹³⁵	69.27 ⁷¹	63.224 ¹¹³	22.99 ⁴⁸
Aug. 8	54.092 ¹³⁶	23.48 ⁴¹	62.137 ¹⁴⁷	68.36 ⁴¹	39.985 ¹⁵²	69.98 ⁴²	63.111 ¹³¹	22.51 ³⁹
18	53.956 ¹⁴⁷	23.89 ²¹	61.990 ¹⁵⁸	68.77 ¹⁴	39.833 ¹⁶³	70.40 ¹³	62.980 ¹⁴²	22.12 ²⁷
28	53.809 ¹⁵⁰	24.10 ¹	61.832 ¹⁶¹	68.91 ¹⁵	39.670 ¹⁶⁶	70.53 ¹⁹	62.838 ¹⁴⁷	21.85 ¹⁶
Sept. 7	53.659 ¹⁴⁴	24.09 ²²	61.671 ¹⁵⁵	68.76 ⁴⁵	39.504 ¹⁶¹	70.34 ⁴⁹	62.691 ¹⁴²	21.69 ³
17	53.515 ¹³⁰	23.87 ⁴⁵	61.516 ¹⁴²	68.31 ⁷⁴	39.343 ¹⁴⁸	69.85 ⁸²	62.549 ¹²⁸	21.66 ¹²
27	53.385 ¹⁰⁸	23.42 ⁶⁹	61.374 ¹¹⁹	67.57 ¹⁰⁴	39.195 ¹²⁵	69.03 ¹¹³	62.421 ¹⁰⁷	21.78 ²⁸
Okt. 7	53.277 ⁷⁷	22.73 ⁹³	61.255 ⁸⁸	66.53 ¹³⁴	39.070 ⁹⁴	67.90 ¹⁴⁴	62.314 ⁷⁵	22.06 ⁴⁶
17	53.200 ³⁸	21.80 ¹¹⁸	61.167 ⁴⁹	65.19 ¹⁶²	38.976 ⁵⁵	66.46 ¹⁷⁴	62.239 ³⁶	22.52 ⁶⁵
27	53.162 ⁶	20.62 ¹⁴²	61.118 ⁴	63.57 ¹⁸⁹	38.921 ¹¹	64.72 ²⁰¹	62.203 ⁸	23.17 ⁸⁶
Nov. 6	53.168 ⁵⁵	19.20 ¹⁶⁵	61.114 ⁴⁴	61.68 ²¹³	38.910 ³⁸	62.71 ²²⁶	62.211 ⁵⁶	24.03 ¹⁰⁷
16	53.223 ¹⁰⁵	17.55 ¹⁸⁶	61.158 ⁹⁵	59.55 ²³³	38.948 ⁹⁰	60.45 ²⁴⁷	62.267 ¹⁰⁷	25.10 ¹²⁶
26	53.328 ¹⁵⁴	15.69 ²⁰²	61.253 ¹⁴⁵	57.22 ²⁴⁹	39.038 ¹⁴¹	57.98 ²⁶¹	62.374 ¹⁵⁷	26.36 ¹⁴⁵
Dez. 6	53.482 ¹⁹⁹	13.67 ²¹⁴	61.398 ¹⁹³	54.73 ²⁵⁷	39.179 ¹⁸⁹	55.37 ²⁶⁹	62.531 ²⁰²	27.81 ¹⁶¹
16	53.681 ²⁴⁰	11.53 ²²⁰	61.591 ²³⁴	52.16 ²⁵⁹	39.368 ²³¹	52.68 ²⁶⁹	62.733 ²⁴²	29.42 ¹⁷¹
26	53.921 ²⁷³	9.33 ²¹⁹	61.825 ²⁷⁰	49.57 ²⁵²	39.599 ²⁶⁷	49.99 ²⁶¹	62.975 ²⁷⁵	31.13 ¹⁷⁸
36	54.194	7.14	62.095	47.05	39.866	47.38	63.250	32.91
Mittl. Ort	52.060	29.53	60.137	71.66	37.989	72.48	61.010	13.26
see δ , tg δ	1.007	+0.116	1.038	+0.280	1.054	+0.332	1.002	-0.056
a , a'	+2.9	-11.4	+2.8	-11.3	+2.7	-11.1	+3.1	-11.1
b , b'	0.00	+0.82	-0.01	+0.83	-0.01	+0.83	0.00	+0.83

Tag	590) ζ Ursae min.		588) ε Serpentis		589) β Triang. austr.		593) ε Coron. bor.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	15 ^h 46 ^m	+77° 59'	15 ^h 47 ^m	+4° 40'	15 ^h 48 ^m	−63° 13'	15 ^h 54 ^m	+27° 4'
Jan. I	25.73 ⁷⁶	67.94 ²⁹⁴	21.188 ²⁸⁶	54.97 ²⁰⁹	59.36 ⁵⁷	4.94 ⁷⁹	42.511 ²⁸³	22.56 ²⁷⁷
II	26.49 ⁸⁹	65.00 ²⁴⁴	21.474 ³⁰⁶	52.88 ¹⁹⁸	59.93 ⁶¹	4.15 ³⁷	42.794 ³¹⁰	19.79 ²⁵⁰
21	27.38 ¹⁰¹	62.56 ¹⁸⁷	21.780 ³¹⁷	50.90 ¹⁸¹	60.54 ⁶⁴	3.78 ⁶	43.104 ³²⁶	17.29 ²¹³
31	28.39 ¹⁰⁷	60.69 ¹²⁴	22.097 ³²¹	49.09 ¹⁵⁶	61.18 ⁶⁵	3.84 ⁴⁸	43.430 ³³⁴	15.16 ¹⁷⁰
Feb. 10	29.46 ¹⁰⁹	59.45 ⁵⁷	22.418 ³¹⁶	47.53 ¹²⁷	61.83 ⁶⁵	4.32 ⁸⁸	43.764 ³³⁴	13.46 ¹²⁰
20	30.55 ¹⁰⁹	58.88 ¹¹	22.734 ³⁰⁷	46.26 ⁹⁴	62.48 ⁶³	5.20 ¹²⁵	44.098 ³²⁶	12.26 ⁶⁸
März 2	31.64 ¹⁰⁴	58.99 ⁷⁸	23.041 ²⁹¹	45.32 ⁶⁰	63.11 ⁶¹	6.45 ¹⁵⁷	44.424 ³¹⁰	11.58 ¹⁵
12	32.68 ⁹⁵	59.77 ¹³⁹	23.332 ²⁷²	44.72 ²⁵	63.72 ⁵⁷	8.02 ¹⁸⁵	44.734 ²⁹¹	11.43 ³⁷
22	33.63 ⁸⁴	61.16 ¹⁹⁴	23.604 ²⁵⁰	44.47 ⁹	64.29 ⁵³	9.87 ²¹⁰	45.025 ²⁶⁶	11.80 ⁸⁵
Apr. I	34.47 ⁶⁹	63.10 ²⁴⁰	23.854 ²²⁶	44.56 ³⁹	64.82 ⁴⁸	11.97 ²³⁰	45.291 ²³⁸	12.65 ¹²⁹
II	35.16 ⁵³	65.50 ²⁷⁶	24.080 ²⁰⁰	44.95 ⁶⁵	65.30 ⁴²	14.27 ²⁴⁵	45.529 ²⁰⁸	13.94 ¹⁶⁴
21	35.69 ³⁵	68.26 ³⁰¹	24.280 ¹⁷⁴	45.60 ⁸⁷	65.72 ³⁶	16.72 ²⁵⁶	45.737 ¹⁷⁶	15.58 ¹⁹³
Mai I	36.04 ¹⁸	71.27 ³¹⁴	24.454 ¹⁴⁶	46.47 ¹⁰³	66.08 ³⁰	19.28 ²⁶¹	45.913 ¹⁴²	17.51 ²¹²
II	36.22 ¹	74.41 ³¹⁶	24.600 ¹¹⁶	47.50 ¹¹⁴	66.38 ²³	21.89 ²⁶²	46.055 ¹⁰⁸	19.63 ²²⁴
20*)	36.21 ²⁰	77.57 ³⁰⁸	24.716 ⁸⁶	48.64 ¹²⁰	66.61 ¹⁶	24.51 ²⁵⁸	46.163 ⁷²	21.87 ²²⁸
30	36.01 ³⁶	80.65 ²⁹¹	24.802 ⁵⁵	49.84 ¹²¹	66.77 ⁸	27.09 ²⁴⁸	46.235 ³⁶	24.15 ²²⁴
Juni 9	35.65 ⁵²	83.56 ²⁶⁴	24.857 ²⁴	51.05 ¹¹⁸	66.85 ⁰	29.57 ²³²	46.271 ⁰	26.39 ²¹²
19	35.13 ⁶⁶	86.20 ²³⁰	24.881 ⁸	52.23 ¹¹¹	66.85 ⁶	31.89 ²¹¹	46.271 ³⁵	28.51 ¹⁹⁶
29	34.47 ⁷⁹	88.50 ¹⁹⁰	24.873 ³⁹	53.34 ¹⁰¹	66.79 ¹⁴	34.00 ¹⁸⁴	46.236 ⁶⁹	30.47 ¹⁷³
Juli 9	33.68 ⁹⁰	90.40 ¹⁴⁵	24.834 ⁶⁸	54.35 ⁸⁹	66.65 ²¹	35.84 ¹⁵²	46.167 ¹⁰⁰	32.20 ¹⁴⁶
19	32.78 ⁹⁹	91.85 ⁹⁷	24.766 ⁹⁴	55.24 ⁷⁵	66.44 ²⁷	37.36 ¹¹⁷	46.067 ¹²⁹	33.66 ¹¹⁶
29	31.79 ¹⁰⁴	92.82 ⁴⁷	24.672 ¹¹⁷	55.99 ⁵⁹	66.17 ³¹	38.53 ⁷⁶	45.938 ¹⁵³	34.82 ⁸³
Aug. 8	30.75 ¹⁰⁹	93.29 ⁶	24.555 ¹³⁴	56.58 ⁴³	65.86 ³⁵	39.29 ³³	45.785 ¹⁷¹	35.65 ⁴⁸
18	29.66 ¹¹⁰	93.23 ⁵⁸	24.421 ¹⁴⁶	57.01 ²⁴	65.51 ³⁷	39.62 ¹¹	45.614 ¹⁸⁴	36.13 ¹²
28	28.56 ¹⁰⁹	92.65 ¹⁰⁹	24.275 ¹⁵⁰	57.25 ⁵	65.14 ³⁷	39.51 ⁵⁵	45.430 ¹⁸⁸	36.25 ²⁶
Sept. 7	27.47 ¹⁰⁶	91.56 ¹⁵⁹	24.125 ¹⁴⁵	57.30 ¹⁶	64.77 ³⁶	38.96 ⁹⁸	45.242 ¹⁸⁵	35.99 ⁶⁴
17	26.41 ⁹⁹	89.97 ²⁰⁶	23.980 ¹³²	57.14 ³⁷	64.41 ³³	37.98 ¹³⁸	45.057 ¹⁷¹	35.35 ¹⁰¹
27	25.42 ⁹⁰	87.91 ²⁵⁰	23.848 ¹¹¹	56.77 ⁶⁰	64.08 ²⁷	36.60 ¹⁷³	44.886 ¹⁴⁹	34.34 ¹³⁸
Okt. 7	24.52 ⁷⁸	85.41 ²⁸⁹	23.737 ⁸⁰	56.17 ⁸²	63.81 ²⁰	34.87 ²⁰⁰	44.737 ¹¹⁸	32.96 ¹⁷³
17	23.74 ⁶⁵	82.52 ³²³	23.657 ⁴²	55.35 ¹⁰⁶	63.61 ¹²	32.87 ²²⁰	44.619 ⁷⁹	31.23 ²⁰⁷
27	23.09 ⁴⁹	79.29 ³⁵⁰	23.615 ¹	54.29 ¹²⁹	63.49 ³	30.67 ²³⁰	44.540 ³³	29.16 ²³⁷
Nov. 6	22.60 ³¹	75.79 ³⁶⁹	23.616 ⁵⁰	53.00 ¹⁵²	63.46 ⁸	28.37 ²³²	44.507 ¹⁸	26.79 ²⁶³
16	22.29 ¹¹	72.10 ³⁸⁰	23.666 ¹⁰⁰	51.48 ¹⁷²	63.54 ¹⁹	26.05 ²²³	44.525 ⁷¹	24.16 ²⁸⁴
26	22.18 ⁸	68.30 ³⁸¹	23.766 ¹⁴⁹	49.76 ¹⁹⁰	63.73 ²⁸	23.82 ²⁰⁵	44.596 ¹²⁵	21.32 ²⁹⁷
Dez. 6	22.26 ²⁸	64.49 ³⁷¹	23.915 ¹⁹⁵	47.86 ²⁰³	64.01 ³⁸	21.77 ¹⁷⁸	44.721 ¹⁷⁶	18.35 ³⁰³
16	22.54 ⁴⁷	60.78 ³⁴⁹	24.110 ²³⁵	45.83 ²⁰⁹	64.39 ⁴⁷	19.99 ¹⁴⁵	44.897 ²²³	15.32 ³⁰¹
26	23.01 ⁶⁶	57.29 ³¹⁷	24.345 ²⁶⁹	43.74 ²¹⁰	64.86 ⁵³	18.54 ¹⁰⁸	45.120 ²⁶²	12.31 ²⁸⁹
36	23.67	54.12	24.614	41.64	65.39	17.46	45.382	9.42
Mittl. Ort	28.94	87.36	22.482	63.13	62.74	10.81	43.788	35.69
sec δ, tg δ	4.813	+4.708	1.003	+0.082	2.219	−1.981	1.123	+0.511
a, a'	−2.2	−11.0	+3.0	−11.0	+5.3	−10.8	+2.5	−10.4
b, b'	−0.17	+0.84	0.00	+0.84	+0.07	+0.84	−0.02	+0.85

*) Bei Stern 593) lies Mai 21

Tag	594) δ Scorpii		598) δ Draconis		597) β Scorpii		603) δ Ophiuchi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	15 ^h 56 ^m	—22° 25'	16 ^h 0 ^m	+58° 44'	16 ^h 1 ^m	—19° 37'	16 ^h 10 ^m	—3° 31'
Jan. 1	13.358 ³¹²	38.89 ⁹³	33.905 ³⁶²	38.99 ³¹⁹	23.675 ³⁰⁴	8.03 ¹⁰³	42.214 ²⁷⁶	11.83 ¹⁷¹
11	13.670 ³³⁴	39.82 ¹⁰⁵	34.267 ⁴¹⁶	35.80 ²⁷⁶	23.979 ³²⁵	9.06 ¹¹²	42.490 ²⁹⁸	13.54 ¹⁶⁸
21	14.004 ³⁴⁶	40.87 ¹¹⁴	34.683 ⁴⁵⁶	33.04 ²²³	24.304 ³³⁸	10.18 ¹¹⁸	42.788 ³¹²	15.22 ¹⁵⁹
31	14.350 ³⁵⁰	42.01 ¹¹⁸	35.139 ⁴⁸¹	30.81 ¹⁶³	24.642 ³⁴³	11.36 ¹¹⁹	43.100 ³¹⁹	16.81 ¹⁴³
Feb. 10	14.700 ³⁴⁷	43.19 ¹¹⁸	35.620 ⁴⁹²	29.18 ⁹⁸	24.985 ³⁴¹	12.55 ¹¹⁷	43.419 ³¹⁹	18.24 ¹²³
20	15.047 ³³⁷	44.37 ¹¹⁴	36.112 ⁴⁸⁷	28.20 ³⁰	25.326 ³³²	13.72 ¹⁰⁹	43.738 ³¹²	19.47 ⁹⁸
März 2	15.384 ³²²	45.51 ¹⁰⁷	36.599 ⁴⁶⁷	27.90 ³⁷	25.658 ³¹⁸	14.81 ⁹⁹	44.050 ³⁰¹	20.45 ⁷²
12	15.706 ³⁰⁴	46.58 ⁹⁸	37.066 ⁴³⁷	28.27 ¹⁰¹	25.976 ³⁰¹	15.80 ⁸⁸	44.351 ²⁸⁵	21.17 ⁴⁴
22	16.010 ²⁸³	47.56 ⁸⁸	37.503 ³⁹⁴	29.28 ¹⁵⁹	26.277 ²⁸¹	16.68 ⁷⁵	44.636 ²⁶⁸	21.61 ¹⁷
Apr. 1	16.293 ²⁵⁹	48.44 ⁷⁷	37.897 ³⁴³	30.87 ²¹¹	26.558 ²⁵⁸	17.43 ⁶²	44.904 ²⁴⁶	21.78 ⁸
11	16.552 ²³⁴	49.21 ⁶⁷	38.240 ²⁸⁶	32.98 ²⁵²	26.816 ²³⁴	18.05 ⁵⁰	45.150 ²²³	21.70 ³⁰
21	16.786 ²⁰⁷	49.88 ⁵⁷	38.526 ²²³	35.50 ²⁸⁴	27.050 ²⁰⁸	18.55 ⁴⁰	45.373 ¹⁹⁹	21.40 ⁴⁹
Mai 1	16.993 ¹⁷⁹	50.45 ⁴⁹	38.749 ¹⁵⁶	38.34 ³⁰⁴	27.258 ¹⁸⁰	18.95 ³⁰	45.572 ¹⁷²	20.91 ⁶⁴
11	17.172 ¹⁴⁸	50.94 ⁴¹	38.905 ⁸⁹	41.38 ³¹⁴	27.438 ¹⁵⁰	19.25 ²³	45.744 ¹⁴⁴	20.27 ⁷⁴
21	17.320 ¹¹⁵	51.35 ³⁴	38.994 ²¹	44.52 ³¹³	27.588 ¹¹⁸	19.48 ¹⁶	45.888 ¹¹⁴	19.53 ⁸¹
30	17.435 ⁸¹	51.69 ²⁸	39.015 ⁴⁵	47.65 ³⁰²	27.706 ⁸⁵	19.64 ¹⁰	46.002 ⁸²	18.72 ⁸³
Juni 9	17.516 ⁴⁶	51.97 ²²	38.970 ¹⁰⁹	50.67 ²⁸³	27.791 ⁵⁰	19.74 ⁶	46.084 ⁴⁹	17.89 ⁸³
19	17.562 ¹¹	52.19 ¹⁶	38.861 ¹⁷¹	53.50 ²⁵⁵	27.841 ¹⁵	19.80 ²	46.133 ¹⁶	17.06 ⁸⁰
29	17.573 ²⁵	52.35 ¹⁰	38.690 ²²⁶	56.05 ²²⁰	27.856 ²¹	19.82 ²	46.149 ¹⁸	16.26 ⁷⁵
Juli 9	17.548 ⁵⁸	52.45 ³	38.464 ²⁷⁵	58.25 ¹⁸¹	27.835 ⁵⁴	19.80 ⁷	46.131 ⁴⁹	15.51 ⁶⁸
19	17.490 ⁹⁰	52.48 ⁴	38.189 ³¹⁸	60.06 ¹³⁷	27.781 ⁸⁵	19.73 ¹²	46.082 ⁸⁰	14.83 ⁵⁹
29	17.400 ¹¹⁷	52.44 ¹³	37.871 ³⁵³	61.43 ⁸⁹	27.696 ¹¹³	19.61 ¹⁷	46.002 ¹⁰⁶	14.24 ⁵⁰
Aug. 8	17.283 ¹³⁸	52.31 ²⁰	37.518 ³⁷⁹	62.32 ³⁹	27.583 ¹³⁴	19.44 ²²	45.896 ¹²⁷	13.74 ⁴¹
18	17.145 ¹⁵³	52.11 ²⁸	37.139 ³⁹³	62.71 ¹²	27.449 ¹⁴⁹	19.22 ²⁷	45.769 ¹⁴³	13.33 ²⁹
28	16.992 ¹⁵⁸	51.83 ³⁶	36.746 ³⁹⁷	62.59 ⁶³	27.300 ¹⁵⁶	18.95 ³²	45.626 ¹⁵¹	13.04 ¹⁷
Sept. 7	16.834 ¹⁵⁵	51.47 ⁴¹	36.349 ³⁸⁸	61.96 ¹¹⁴	27.144 ¹⁵³	18.63 ³⁵	45.475 ¹⁵¹	12.87 ⁵
17	16.679 ¹⁴¹	51.06 ⁴⁵	35.961 ³⁶⁸	60.82 ¹⁶⁴	26.991 ¹⁴¹	18.28 ³⁵	45.324 ¹⁴⁰	12.82 ⁹
27	16.538 ¹¹⁸	50.61 ⁴⁶	35.593 ³³⁴	59.18 ²¹⁰	26.850 ¹¹⁹	17.93 ³⁴	45.184 ¹²²	12.91 ²⁵
Okt. 7	16.420 ⁸⁴	50.15 ⁴³	35.259 ²⁸⁸	57.08 ²⁵⁴	26.731 ⁸⁷	17.59 ³⁰	45.062 ⁹³	13.16 ⁴²
17	16.336 ⁴³	49.72 ³⁶	34.971 ²²⁹	54.54 ²⁹²	26.644 ⁴⁷	17.29 ²²	44.969 ⁵⁷	13.58 ⁶⁰
27	16.293 ⁵	49.36 ²⁶	34.742 ¹⁶¹	51.62 ³²⁶	26.597 ⁰	17.07 ¹⁰	44.912 ¹⁴	14.18 ⁷⁹
Nov. 6	16.298 ⁵⁸	49.10 ¹³	34.581 ⁸⁴	48.36 ³⁵²	26.597 ⁵¹	16.97 ⁴	44.898 ³³	14.97 ⁹⁸
16	16.356 ¹¹³	48.97 ⁵	34.497 ¹	44.84 ³⁷¹	26.648 ¹⁰⁵	17.01 ²¹	44.931 ⁸³	15.95 ¹¹⁸
26	16.469 ¹⁶⁶	49.02 ²⁴	34.496 ⁸³	41.13 ³⁷⁹	26.753 ¹⁵⁸	17.22 ³⁹	45.014 ¹³³	17.13 ¹³⁶
Dez. 6	16.635 ²¹⁵	49.26 ⁴⁴	34.579 ¹⁶⁷	37.34 ³⁷⁶	26.911 ²⁰⁶	17.61 ⁵⁸	45.147 ¹⁷⁹	18.49 ¹⁵⁰
16	16.850 ²⁵⁹	49.70 ⁶³	34.746 ²⁴⁸	33.58 ³⁶³	27.117 ²⁵⁰	18.19 ⁷⁷	45.326 ²²²	19.99 ¹⁶²
26	17.109 ²⁹⁵	50.33 ⁸¹	34.994 ³²⁰	29.95 ³³⁸	27.367 ²⁸⁶	18.96 ⁹²	45.548 ²⁵⁸	21.61 ¹⁶⁸
36	17.404	51.14	35.314	26.57	27.653	19.88	45.806	23.29
Mittl. Ort	14.965	36.74	35.622	56.70	25.256	5.00	43.651	4.94
sec δ , tg δ	1.082	—0.413	1.928	+1.648	1.062	—0.356	1.002	—0.062
a, a'	+3.5	—10.3	+1.2	—10.0	+3.5	—9.9	+3.1	—9.2
b, b'	+0.01	+0.86	—0.05	+0.87	+0.01	+0.87	0.00	+0.89

Tag	606) 19 Ursae min.		604) γ^2 Normae		* 605) ϵ Ophiuchi		608) τ Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	16 ^b 12 ^m	+76° 2'	16 ^b 14 ^m	-49° 59'	16 ^b 14 ^m	-4° 31'	16 ^b 17 ^m	+46° 28'
Jan. 1	42.57 ⁵⁸	48.88 ³¹⁶	37.534 ⁴⁰⁴	15.06 ⁵³	38.623 ²⁷⁴	39.45 ¹⁶⁵	38.375 ²⁹¹	20.77 ³²¹
11	43.15 ⁷²	45.72 ²⁷³	37.938 ⁴³⁹	14.53 ²¹	38.897 ²⁹⁷	41.10 ¹⁶³	38.666 ³³²	17.56 ²⁸⁶
21	43.87 ⁸²	42.99 ²²⁰	38.377 ⁴⁶³	14.32 ¹⁰	39.194 ³¹²	42.73 ¹⁵⁴	38.998 ³⁶³	14.70 ²⁴⁰
31	44.69 ⁹⁰	40.79 ¹⁶⁰	38.840 ⁴⁷⁴	14.42 ⁴⁰	39.506 ³¹⁹	44.27 ¹³⁹	39.361 ³⁸³	12.30 ¹⁸⁶
Feb. 10	45.59 ⁹⁴	39.19 ⁹⁴	39.314 ⁴⁷⁷	14.82 ⁶⁸	39.825 ³¹⁹	45.66 ¹²¹	39.744 ³⁹²	10.44 ¹²⁷
20	46.53 ⁹⁵	38.25 ²⁶	39.791 ⁴⁷⁰	15.50 ⁹³	40.144 ³¹⁴	46.87 ⁹⁷	40.136 ³⁹¹	9.17 ⁶³
März 2	47.48 ⁹³	37.99 ⁴²	40.261 ⁴⁵⁵	16.43 ¹¹⁵	40.458 ³⁰²	47.84 ⁷²	40.527 ³⁸⁰	8.54 ¹
12	48.41 ⁸⁷	38.41 ¹⁰⁶	40.716 ⁴³⁵	17.58 ¹³⁴	40.760 ²⁸⁸	48.56 ⁴⁵	40.907 ³⁵⁹	8.55 ⁶³
22	49.28 ⁷⁹	39.47 ¹⁶⁶	41.151 ⁴¹⁰	18.92 ¹⁵⁰	41.048 ²⁷⁰	49.01 ¹⁹	41.266 ³³²	9.18 ¹²²
Apr. 1	50.07 ⁶⁸	41.13 ²¹⁶	41.561 ³⁷⁹	20.42 ¹⁶³	41.318 ²⁵⁰	49.20 ⁶	41.598 ²⁹⁸	10.40 ¹⁷⁵
11	50.75 ⁵⁵	43.29 ²⁵⁹	41.940 ³⁴⁶	22.05 ¹⁷³	41.568 ²²⁷	49.14 ²⁷	41.896 ²⁵⁹	12.15 ²¹⁸
21	51.30 ⁴¹	45.88 ²⁹⁰	42.286 ³⁰⁸	23.78 ¹⁸¹	41.795 ²⁰³	48.87 ⁴⁶	42.155 ²¹⁷	14.33 ²⁵²
Mai 1	51.71 ²⁶	48.78 ³¹⁰	42.594 ²⁶⁶	25.59 ¹⁸⁶	41.998 ¹⁷⁷	48.41 ⁵⁹	42.372 ¹⁷⁰	16.85 ²⁷⁷
11	51.97 ¹⁰	51.88 ³²⁰	42.860 ²²¹	27.45 ¹⁸⁷	42.175 ¹⁴⁹	47.82 ⁷⁰	42.542 ¹²³	19.62 ²⁹²
21	52.07 ⁶	55.08 ³¹⁹	43.081 ¹⁷²	29.32 ¹⁸⁶	42.324 ¹¹⁹	47.12 ⁷⁷	42.665 ⁷⁴	22.54 ²⁹⁶
30	52.01 ²¹	58.27 ³⁰⁷	43.253 ¹²²	31.18 ¹⁸¹	42.443 ⁸⁷	46.35 ⁸⁰	42.739 ²⁴	25.50 ²⁹¹
Juni 9	51.80 ³⁵	61.34 ²⁸⁷	43.375 ⁶⁸	32.99 ¹⁷²	42.530 ⁵³	45.55 ⁷⁹	42.763 ²⁵	28.41 ²⁷⁸
19	51.45 ⁴⁸	64.21 ²⁵⁹	43.443 ¹³	34.71 ¹⁵⁹	42.583 ²⁰	44.76 ⁷⁷	42.738 ⁷³	31.19 ²⁵⁷
29	50.97 ⁶¹	66.80 ²²³	43.456 ⁴⁰	36.30 ¹⁴¹	42.603 ¹⁴	43.99 ⁷²	42.665 ¹¹⁹	33.76 ²²⁸
Juli 9	50.36 ⁷¹	69.03 ¹⁸³	43.416 ⁹²	37.71 ¹²⁰	42.589 ⁴⁷	43.27 ⁶⁵	42.546 ¹⁶⁰	36.04 ¹⁹⁴
19	49.65 ⁸¹	70.86 ¹³⁷	43.324 ¹⁴⁰	38.91 ⁹⁵	42.542 ⁷⁷	42.62 ⁵⁷	42.386 ¹⁹⁹	37.98 ¹⁵⁵
29	48.84 ⁸⁷	72.23 ⁸⁹	43.184 ¹⁸²	39.86 ⁶⁷	42.465 ¹⁰⁴	42.05 ⁴⁹	42.187 ²³⁰	39.53 ¹¹⁴
Aug. 8	47.97 ⁹²	73.12 ³⁹	43.002 ²¹⁴	40.53 ³⁶	42.361 ¹²⁷	41.56 ⁴⁰	41.957 ²⁵⁶	40.67 ⁶⁸
18	47.05 ⁹⁶	73.51 ¹⁴	42.788 ²³⁸	40.89 ³	42.234 ¹⁴²	41.16 ³⁰	41.701 ²⁷³	41.35 ²¹
28	46.09 ⁹⁶	73.37 ⁶⁶	42.550 ²⁴⁹	40.92 ³¹	42.092 ¹⁵¹	40.86 ¹⁸	41.428 ²⁸¹	41.56 ²⁷
Sept. 7	45.13 ⁹⁴	72.71 ¹¹⁷	42.301 ²⁴⁶	40.61 ⁶⁴	41.941 ¹⁵¹	40.68 ⁷	41.147 ²⁸⁰	41.29 ⁷⁵
17	44.19 ⁹¹	71.54 ¹⁶⁷	42.055 ²³⁰	39.97 ⁹⁴	41.790 ¹⁴²	40.61 ⁵	40.867 ²⁶⁷	40.54 ¹²²
27	43.28 ⁸⁴	69.87 ²¹³	41.825 ²⁰⁰	39.03 ¹²¹	41.648 ¹²³	40.66 ²¹	40.600 ²⁴⁴	39.32 ¹⁶⁹
Okt. 7	42.44 ⁷⁵	67.74 ²⁵⁷	41.625 ¹⁵⁵	37.82 ¹⁴⁴	41.525 ⁹⁵	40.87 ³⁶	40.356 ²¹⁰	37.63 ²¹²
17	41.69 ⁶⁴	65.17 ²⁹⁵	41.470 ⁹⁹	36.38 ¹⁶⁰	41.430 ⁶⁰	41.23 ⁵⁴	40.146 ¹⁶⁷	35.51 ²⁵²
27	41.05 ⁵¹	62.22 ³²²	41.371 ³³	34.78 ¹⁶⁸	41.370 ¹⁷	41.77 ⁷²	39.979 ¹¹⁴	32.99 ²⁸⁸
Nov. 6	40.54 ³⁶	58.94 ³⁵³	41.338 ³⁹	33.10 ¹⁶⁹	41.353 ³⁰	42.49 ⁹¹	39.865 ⁵⁵	30.11 ³¹⁸
16	40.18 ²⁰	55.41 ³⁷¹	41.377 ¹¹⁵	31.41 ¹⁶³	41.383 ⁸⁰	43.40 ¹¹⁰	39.810 ¹⁰	26.93 ³⁴¹
26	39.98 ³	51.70 ³⁷⁹	41.492 ¹⁹⁰	29.78 ¹⁴⁹	41.463 ¹³⁰	44.50 ¹²⁸	39.820 ⁷⁵	23.52 ³⁵⁵
Dez. 6	39.95 ¹⁵	47.91 ³⁷⁶	41.682 ²⁶⁰	28.29 ¹²⁹	41.593 ¹⁷⁸	45.78 ¹⁴³	39.895 ¹⁴¹	19.97 ³⁶⁰
16	40.10 ³³	44.15 ³⁶²	41.942 ³²⁴	27.00 ¹⁰⁴	41.771 ²¹⁹	47.21 ¹⁵⁵	40.036 ²⁰²	16.37 ³⁵³
26	40.43 ⁴⁸	40.53 ³³⁶	42.266 ³⁷⁷	25.96 ⁷⁴	41.990 ²⁵⁶	48.76 ¹⁶¹	40.238 ²⁵⁹	12.84 ³³⁵
36	40.91	37.17	42.643	25.22	42.246	50.37	40.497	9.49
Mittl. Ort	45.98	67.15	40.007	16.92	40.081	32.66	39.941	36.59
see δ , tg δ	4.149	+4.026	1.555	-1.191	1.003	-0.079	1.452	+1.053
a , a'	-1.7	-9.0	+4.5	-8.9	+3.2	-8.9	+1.8	-8.7
b , b'	-0.12	+0.89	+0.04	+0.90	0.00	+0.90	-0.03	+0.90

Tag	609) γ Herculis		611) γ Apodis		615) η Draconis		616) α Scorpii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	16 ^h 18 ^m	+19° 18'	16 ^h 22 ^m	−78° 44'	16 ^h 23 ^m	+61° 39'	16 ^h 25 ^m	−26° 16'
Jan. I	51.116 ²⁶⁰	38.81 ²⁵⁸	40.66 ¹⁰⁸	40.30 ¹⁷⁹	1.07 ³⁴	55.07 ³³³	8.608 ³⁰¹	52.61 ⁵⁵
II	51.376 ²⁸⁸	36.23 ²³⁹	41.74 ¹²¹	38.51 ¹³⁴	1.41 ⁴¹	51.74 ²⁹⁴	8.909 ³²⁶	53.16 ⁶⁸
21	51.664 ³⁰⁶	33.84 ²¹⁰	42.95 ¹³¹	37.17 ⁸⁷	1.82 ⁴⁷	48.80 ²⁴³	9.235 ³⁴⁴	53.84 ⁸⁰
31	51.970 ³¹⁸	31.74 ¹⁷³	44.26 ¹³⁸	36.30 ³⁸	2.29 ⁵⁰	46.37 ¹⁸⁶	9.579 ³⁵⁴	54.64 ⁸⁷
Feb. 10	52.288 ³²⁰	30.01 ¹³²	45.64 ¹⁴¹	35.92 ¹¹	2.79 ⁵²	44.51 ¹²²	9.933 ³⁵⁶	55.51 ⁹⁰
20	52.608 ³¹⁶	28.69 ⁸⁶	47.05 ¹⁴⁰	36.03 ⁵⁸	3.31 ⁵²	43.29 ⁵⁴	10.289 ³⁵¹	56.41 ⁹¹
März 2	52.924 ³⁰⁶	27.83 ³⁸	48.45 ¹³⁸	36.61 ¹⁰³	3.83 ⁵¹	42.75 ¹⁴	10.640 ³⁴¹	57.32 ⁸⁹
12	53.230 ²⁹¹	27.45 ⁹	49.83 ¹³³	37.64 ¹⁴⁵	4.34 ⁴⁹	42.89 ⁸¹	10.981 ³²⁷	58.21 ⁸⁵
22	53.521 ²⁷²	27.54 ⁵⁴	51.16 ¹²⁵	39.09 ¹⁸³	4.83 ⁴⁵	43.70 ¹⁴²	11.308 ³⁰⁹	59.06 ⁷⁹
Apr. I	53.793 ²⁴⁹	28.08 ⁹⁶	52.41 ¹¹⁵	40.92 ²¹⁸	5.28 ⁴⁰	45.12 ¹⁹⁶	11.617 ²⁹⁰	59.85 ⁷³
II	54.042 ²²⁵	29.04 ¹³¹	53.56 ¹⁰³	43.10 ²⁴⁶	5.68 ³⁴	47.08 ²⁴¹	11.907 ²⁶⁷	60.58 ⁶⁷
21	54.267 ¹⁹⁷	30.35 ¹⁵⁹	54.59 ⁹⁰	45.56 ²⁷⁰	6.02 ²⁷	49.49 ²⁷⁸	12.174 ²⁴¹	61.25 ⁶²
Mai I	54.464 ¹⁶⁸	31.94 ¹⁸²	55.49 ⁷⁵	48.26 ²⁸⁹	6.29 ²⁰	52.27 ³⁰³	12.415 ²¹³	61.87 ⁵⁶
II	54.632 ¹³⁶	33.76 ¹⁹⁵	56.24 ⁵⁹	51.15 ³⁰⁰	6.49 ¹³	55.30 ³¹⁸	12.628 ¹⁸²	62.43 ⁵²
21	54.768 ¹⁰³	35.71 ²⁰²	56.83 ⁴¹	54.15 ³⁰⁶	6.62 ⁵	58.48 ³²¹	12.810 ¹⁵⁰	62.95 ⁴⁸
30	54.871 ⁶⁹	37.73 ²⁰²	57.24 ²³	57.21 ³⁰⁵	6.67 ²	61.69 ³¹⁴	12.960 ¹¹³	63.43 ⁴⁵
Juni 9	54.940 ³³	39.75 ¹⁹⁵	57.47 ⁵	60.26 ²⁹⁶	6.65 ⁹	64.83 ²⁹⁹	13.073 ⁷⁶	63.88 ⁴¹
19	54.973 ²	41.70 ¹⁸³	57.52 ¹⁴	63.22 ²⁸¹	6.56 ¹⁷	67.82 ²⁷⁵	13.149 ³⁷	64.29 ³⁶
29	54.971 ³⁷	43.53 ¹⁶⁶	57.38 ³¹	66.03 ²⁵⁷	6.39 ²³	70.57 ²⁴³	13.186 ²	64.65 ³¹
Juli 9	54.934 ⁷⁰	45.19 ¹⁴⁵	57.07 ⁴⁸	68.60 ²²⁷	6.16 ²⁹	73.00 ²⁰⁶	13.184 ⁴¹	64.96 ²⁴
19	54.864 ¹⁰¹	46.64 ¹²⁰	56.59 ⁶⁴	70.87 ¹⁸⁹	5.87 ³⁴	75.06 ¹⁶³	13.143 ⁷⁷	65.20 ¹⁶
29	54.763 ¹²⁸	47.84 ⁹⁴	55.95 ⁷⁶	72.76 ¹⁴⁷	5.53 ³⁹	76.69 ¹¹⁷	13.066 ¹⁰⁹	65.36 ⁷
Aug. 8	54.635 ¹⁵¹	48.78 ⁶⁴	55.19 ⁸⁶	74.23 ⁹⁸	5.14 ⁴²	77.86 ⁶⁸	12.957 ¹³⁶	65.43 ³
18	54.484 ¹⁶⁶	49.42 ³³	54.33 ⁹³	75.21 ⁴⁶	4.72 ⁴⁴	78.54 ¹⁶	12.821 ¹⁵⁶	65.40 ¹³
28	54.318 ¹⁷⁵	49.75 ²	53.40 ⁹⁶	75.67 ⁸	4.28 ⁴⁵	78.70 ³⁵	12.665 ¹⁶⁷	65.27 ²⁴
Sept. 7	54.143 ¹⁷⁶	49.77 ³¹	52.44 ⁹⁵	75.59 ⁶²	3.83 ⁴⁵	78.35 ⁸⁷	12.498 ¹⁶⁹	65.03 ³⁵
17	53.967 ¹⁶⁷	49.46 ⁶⁴	51.49 ⁹⁰	74.97 ¹¹⁵	3.38 ⁴³	77.48 ¹³⁸	12.329 ¹⁵⁹	64.68 ⁴²
27	53.800 ¹⁴⁹	48.82 ⁹⁷	50.59 ⁸⁰	73.82 ¹⁶⁴	2.95 ⁴⁰	76.10 ¹⁸⁶	12.170 ¹⁴⁰	64.26 ⁴⁹
Okt. 7	53.651 ¹²²	47.85 ¹³⁰	49.79 ⁶⁷	72.18 ²⁰⁸	2.55 ³⁶	74.24 ²³³	12.030 ¹⁰⁹	63.77 ⁵²
17	53.529 ⁸⁷	46.55 ¹⁶¹	49.12 ⁵⁰	70.10 ²⁴³	2.19 ²⁹	71.91 ²⁷⁵	11.921 ⁷⁰	63.25 ⁵²
27	53.442 ⁴⁴	44.94 ¹⁹⁰	48.62 ³⁰	67.67 ²⁶⁹	1.00 ²³	69.16 ³¹¹	11.851 ²³	62.73 ⁴⁷
Nov. 6	53.398 ⁴	43.04 ²¹⁷	48.32 ⁹	64.98 ²⁸⁵	1.67 ¹⁵	66.05 ³⁴¹	11.828 ²⁹	62.26 ³⁸
16	53.402 ⁵⁴	40.87 ²³⁹	48.23 ¹⁵	62.13 ²⁹⁰	1.52 ⁶	62.64 ³⁶⁴	11.857 ⁸⁵	61.88 ²⁶
26	53.456 ¹⁰⁵	38.48 ²⁵⁷	48.38 ³⁸	59.23 ²⁸⁴	1.46 ³	59.00 ³⁷⁷	11.942 ¹⁴⁰	61.62 ¹¹
Dez. 6	53.561 ¹⁵⁴	35.91 ²⁶⁷	48.76 ⁶⁰	56.39 ²⁶⁷	1.49 ¹²	55.23 ³⁷⁹	12.082 ¹⁹³	61.51 ⁷
16	53.715 ²⁰⁰	33.24 ²⁷⁰	49.36 ⁸⁰	53.72 ²⁴⁰	1.61 ²¹	51.44 ³⁷¹	12.275 ²⁴⁰	61.58 ²⁵
26	53.915 ²⁴⁰	30.54 ²⁶⁴	50.16 ⁹⁹	51.32 ²⁰⁵	1.82 ³⁰	47.73 ³⁴⁹	12.515 ²⁸⁰	61.83 ⁴¹
36	54.155	27.90	51.15	49.27	2.12	44.24	12.795	62.24
Mittl. Ort	52.498	50.40	48.54	44.56	3.14	72.16	10.370	49.69
sec δ , tg δ	1.060	+0.350	5.124	−5.025	2.107	+1.855	1.115	−0.494
a, a'	+2.6	−8.6	+9.2	−8.2	+0.8	−8.2	+3.7	−8.1
b, b'	−0.01	+0.90	+0.14	+0.91	−0.05	+0.91	+0.01	+0.92

Tag	618) β Herculis		619) Δ Draconis		621) σ Herculis		622) ζ Ophiuchi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	16 ^h 27 ^m	+21° 37'	16 ^h 28 ^m	+68° 54'	16 ^h 31 ^m	+42° 34'	16 ^h 33 ^m	—10° 25'
Jan. 1	13.748 ²⁵³	67.58 ²⁶⁶	3.89 ⁴⁰	45.59 ³³⁴	51.085 ²⁶⁵	27.35 ³²⁰	19.861 ²⁶⁷	49.86 ¹³⁰
11	14.001 ²⁸³	64.92 ²⁴⁶	4.29 ⁴⁹	42.25 ²⁹⁴	51.350 ³⁰⁷	24.15 ²⁸⁹	20.128 ²⁹²	51.16 ¹³¹
21	14.284 ³⁰³	62.46 ²¹⁶	4.78 ⁵⁶	39.31 ²⁴⁴	51.657 ³³⁸	21.26 ²⁴⁸	20.420 ³¹⁰	52.47 ¹²⁹
31	14.587 ³¹⁶	60.30 ¹⁷⁹	5.34 ⁶²	36.87 ¹⁸⁵	51.995 ³⁵⁹	18.78 ¹⁹⁷	20.730 ³²⁰	53.76 ¹²⁰
Feb. 10	14.903 ³²¹	58.51 ¹³⁶	5.96 ⁶⁵	35.02 ¹²¹	52.354 ³⁶⁹	16.81 ¹⁴⁰	21.050 ³²²	54.96 ¹⁰⁷
20	15.224 ³¹⁹	57.15 ⁸⁸	6.61 ⁶⁶	33.81 ⁵³	52.723 ³⁷¹	15.41 ⁸⁰	21.372 ³²⁰	56.03 ⁹⁰
März 2	15.543 ³¹⁰	56.27 ³⁸	7.27 ⁶⁶	33.28 ¹⁵	53.094 ³⁶⁴	14.61 ¹⁶	21.692 ³¹²	56.93 ⁷²
12	15.853 ²⁹⁶	55.89 ¹¹	7.93 ⁶²	33.43 ⁸²	53.458 ³⁴⁸	14.45 ⁴⁵	22.004 ³⁰¹	57.65 ⁵¹
22	16.149 ²⁷⁸	56.00 ⁵⁸	8.55 ⁵⁷	34.25 ¹⁴³	53.806 ³²⁵	14.90 ¹⁰⁴	22.305 ²⁸⁵	58.16 ³⁰
Apr. 1	16.427 ²⁵⁷	56.58 ¹⁰¹	9.12 ⁵¹	35.68 ¹⁹⁹	54.131 ²⁹⁷	15.94 ¹⁵⁶	22.590 ²⁶⁷	58.46 ¹⁰
11	16.684 ²³²	57.59 ¹³⁸	9.63 ⁴²	37.67 ²⁴⁵	54.428 ²⁶⁴	17.50 ²⁰¹	22.857 ²⁴⁷	58.56 ⁷
21	16.916 ²⁰⁵	58.97 ¹⁶⁹	10.05 ³⁴	40.12 ²⁸¹	54.692 ²²⁶	19.51 ²³⁹	23.104 ²²⁴	58.49 ²³
Mai 1	17.121 ¹⁷⁴	60.66 ¹⁹²	10.39 ²⁵	42.93 ³⁰⁶	54.918 ¹⁸⁵	21.90 ²⁶⁵	23.328 ¹⁹⁹	58.26 ³⁴
11	17.295 ¹⁴³	62.58 ²⁰⁷	10.64 ¹⁴	45.99 ³²¹	55.103 ¹⁴¹	24.55 ²⁸²	23.527 ¹⁷¹	57.92 ⁴³
21	17.438 ¹¹⁰	64.65 ²¹⁴	10.78 ⁴	49.20 ³²⁵	55.244 ⁹⁶	27.37 ²⁹⁰	23.698 ¹⁴¹	57.49 ⁴⁸
30*)	17.548 ⁷⁴	66.79 ²¹⁵	10.82 ⁶	52.45 ³¹⁸	55.340 ⁴⁹	30.27 ²⁸⁸	23.839 ¹⁰⁹	57.01 ⁵¹
Juni 9	17.622 ³⁸	68.94 ²⁰⁹	10.76 ¹⁶	55.63 ³⁰³	55.389 ³	33.15 ²⁷⁸	23.948 ⁷⁴	56.50 ⁵²
19	17.660 ¹	71.03 ¹⁹⁶	10.60 ²⁵	58.66 ²⁷⁸	55.392 ⁴³	35.93 ²⁶⁰	24.022 ³⁸	55.98 ⁵⁰
29	17.661 ³⁵	72.99 ¹⁷⁸	10.35 ³⁴	61.44 ²⁴⁶	55.349 ⁸⁸	38.53 ²³⁴	24.060 ³	55.48 ⁴⁸
Juli 9	17.626 ⁶⁹	74.77 ¹⁵⁶	10.01 ⁴²	63.90 ²⁰⁹	55.261 ¹³⁰	40.87 ²⁰³	24.063 ³²	55.00 ⁴⁴
19	17.557 ¹⁰²	76.33 ¹³¹	9.59 ⁴⁸	65.99 ¹⁶⁶	55.131 ¹⁶⁸	42.90 ¹⁶⁸	24.031 ⁶⁶	54.56 ⁴⁰
29	17.455 ¹³⁰	77.64 ¹⁰²	9.11 ⁵⁴	67.65 ¹¹⁹	54.963 ²⁰²	44.58 ¹²⁸	23.965 ⁹⁷	54.16 ³⁶
Aug. 8	17.325 ¹⁵⁴	78.66 ⁷¹	8.57 ⁵⁹	68.84 ⁶⁹	54.761 ²²⁹	45.86 ⁸⁵	23.868 ¹²²	53.80 ³¹
18	17.171 ¹⁷²	79.37 ³⁹	7.98 ⁶¹	69.53 ¹⁸	54.532 ²⁴⁸	46.71 ⁴⁰	23.746 ¹⁴¹	53.49 ²⁶
28	16.999 ¹⁸¹	79.76 ⁵	7.37 ⁶²	69.71 ³⁵	54.284 ²⁵⁹	47.11 ⁶	23.605 ¹⁵³	53.23 ²⁰
Sept. 7	16.818 ¹⁸³	79.81 ²⁹	6.75 ⁶²	69.36 ⁸⁷	54.025 ²⁶¹	47.05 ⁵²	23.452 ¹⁵⁶	53.03 ¹⁵
17	16.635 ¹⁷⁵	79.52 ⁶³	6.13 ⁶⁰	68.49 ¹³⁸	53.764 ²⁵²	46.53 ⁹⁹	23.296 ¹⁴⁹	52.88 ⁷
27	16.460 ¹⁵⁹	78.89 ⁹⁹	5.53 ⁵⁷	67.11 ¹⁸⁷	53.512 ²³³	45.54 ¹⁴⁵	23.147 ¹³⁴	52.81 ¹
Okt. 7	16.301 ¹³²	77.90 ¹³³	4.96 ⁵¹	65.24 ²³³	53.279 ²⁰³	44.09 ¹⁸⁹	23.013 ¹⁰⁷	52.82 ¹¹
17	16.169 ⁹⁸	76.57 ¹⁶⁶	4.45 ⁴³	62.91 ²⁷⁶	53.076 ¹⁶⁴	42.20 ²³⁰	22.906 ⁷²	52.93 ²³
27	16.071 ⁵⁶	74.91 ¹⁹⁶	4.02 ³⁴	60.15 ³¹²	52.912 ¹¹⁵	39.90 ²⁶⁷	22.834 ³¹	53.16 ³⁸
Nov. 6	16.015 ⁸	72.95 ²²⁴	3.68 ²⁵	57.03 ³⁴³	52.797 ⁶⁰	37.23 ²⁹⁸	22.803 ¹⁶	53.54 ⁵³
16	16.007 ⁴²	70.71 ²⁴⁷	3.43 ¹⁴	53.60 ³⁶⁴	52.737 ¹	34.25 ³²⁴	22.819 ⁶⁷	54.07 ⁶⁹
26	16.049 ⁹⁴	68.24 ²⁶⁵	3.29 ²	49.96 ³⁷⁸	52.736 ⁶²	31.01 ³⁴⁰	22.886 ¹¹⁷	54.76 ⁸⁶
Dez. 6	16.143 ¹⁴⁴	65.59 ²⁷⁶	3.27 ¹¹	46.18 ³⁸⁰	52.798 ¹²⁴	27.61 ³⁴⁹	23.003 ¹⁶⁵	55.62 ¹⁰¹
16	16.287 ¹⁹¹	62.83 ²⁷⁹	3.38 ²²	42.38 ³⁷¹	52.922 ¹⁸²	24.12 ³⁴⁶	23.168 ²⁰⁹	56.63 ¹¹⁴
26	16.478 ²³²	60.04 ²⁷³	3.60 ³³	38.67 ³⁵⁰	53.104 ²³⁶	20.66 ³³²	23.377 ²⁴⁸	57.77 ¹²⁴
36	16.710	57.31	3.93	35.17	53.340	17.34	23.625	59.01
Mittl. Ort	15.167	79.55	6.54	62.87	52.680	42.28	21.427	43.62
sec δ , tg δ	1.076	+0.397	2.780	+2.594	1.358	+0.919	1.017	—0.184
a, a'	+2.6	—7.9	—0.1	—7.8	+1.9	—7.5	+3.3	—7.4
b, b'	—0.01	+0.92	—0.07	+0.92	—0.02	+0.93	0.00	+0.93

*) Bei Stern 621) und 622) lies Mai 31

Tag	626) η Herculis		625) α Triang. austr.		627) Grb 2377		628) ε Scorpii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	16 ^h 40 ^m	+39° 2'	16 ^h 41 ^m	—68° 54'	16 ^h 43 ^m	+56° 53'	16 ^h 45 ^m	—34° 10'
Jan. I	30.198 ²⁵¹	55.06 ³¹⁷	15.96 ⁶⁰	11.67 ¹⁶⁴	57.127 ²⁸⁵	60.52 ³⁴¹	39.382 ³⁰³	13.31 ²
II	30.449 ²⁹¹	51.89 ²⁸⁸	16.56 ⁶⁸	10.03 ¹²⁷	57.412 ³⁴⁶	57.11 ³⁰⁸	39.685 ³³⁵	13.29 ¹⁶
21	30.740 ³²²	49.01 ²⁴⁹	17.24 ⁷⁴	8.76 ⁸⁷	57.758 ³⁹⁵	54.03 ²⁶²	40.020 ³⁵⁷	13.45 ³³
31	31.062 ³⁴²	46.52 ²⁰²	17.98 ⁷⁷	7.89 ⁴⁵	58.153 ⁴³¹	51.41 ²⁰⁹	40.377 ³⁷²	13.78 ⁴⁷
Feb. 10	31.404 ³⁵⁴	44.50 ¹⁴⁸	18.75 ⁸⁰	7.44 ³	58.584 ⁴⁵⁵	49.32 ¹⁴⁸	40.749 ³⁷⁷	14.25 ⁵⁹
20	31.758 ³⁵⁶	43.02 ⁸⁹	19.55 ⁸⁰	7.41 ³⁷	59.039 ⁴⁶⁴	47.84 ⁸²	41.126 ³⁷⁷	14.84 ⁶⁷
März 2	32.114 ³⁵¹	42.13 ²⁸	20.35 ⁷⁹	7.78 ⁷⁶	59.503 ⁴⁶⁰	47.02 ¹⁴	41.503 ³⁷¹	15.51 ⁷⁴
12	32.465 ³³⁸	41.85 ³³	21.14 ⁷⁶	8.54 ¹¹³	59.963 ⁴⁴⁴	46.88 ⁵²	41.874 ³⁵⁹	16.25 ⁷⁹
22	32.803 ³¹⁹	42.18 ⁹¹	21.90 ⁷³	9.67 ¹⁴⁶	60.407 ⁴¹⁶	47.40 ¹¹⁵	42.233 ³⁴⁴	17.04 ⁸¹
April I	33.122 ²⁹³	43.09 ¹⁴³	22.63 ⁶⁹	11.13 ¹⁷⁶	60.823 ³⁷⁹	48.55 ¹⁷²	42.577 ³²⁶	17.85 ⁸³
II	33.415 ²⁶³	44.52 ¹⁸⁸	23.32 ⁶³	12.89 ²⁰²	61.202 ³³⁴	50.27 ²²¹	42.903 ³⁰³	18.68 ⁸⁵
21	33.678 ²³⁰	46.40 ²²⁶	23.95 ⁵⁶	14.91 ²²⁵	61.536 ²⁸¹	52.48 ²⁶²	43.206 ²⁷⁹	19.53 ⁸⁵
Mai I	33.908 ¹⁹²	48.66 ²⁵³	24.51 ⁴⁹	17.16 ²⁴²	61.817 ²²⁴	55.10 ²⁹¹	43.485 ²⁴⁹	20.38 ⁸⁷
11	34.100 ¹⁵²	51.19 ²⁷³	25.00 ⁴¹	19.58 ²⁵⁵	62.041 ¹⁶²	58.01 ³¹¹	43.734 ²¹⁷	21.25 ⁸⁷
21	34.252 ¹⁰⁹	53.92 ²⁸¹	25.41 ³¹	22.13 ²⁶²	62.203 ⁹⁸	61.12 ³²⁰	43.951 ¹⁸²	22.12 ⁸⁷
31	34.361 ⁶⁶	56.73 ²⁸²	25.72 ²²	24.75 ²⁶⁴	62.301 ³³	64.32 ³¹⁹	44.133 ¹⁴²	22.99 ⁸⁶
Juni 9	34.427 ²¹	59.55 ²⁷³	25.94 ¹²	27.39 ²⁶⁰	62.334 ³³	67.51 ³⁰⁸	44.275 ¹⁰¹	23.85 ⁸³
19	34.448 ²³	62.28 ²⁵⁷	26.06 ³	29.99 ²⁴⁹	62.301 ⁹⁶	70.59 ²⁸⁸	44.376 ⁵⁷	24.68 ⁸⁰
29	34.425 ⁶⁷	64.85 ²³⁴	26.09 ⁸	32.48 ²³²	62.205 ¹⁵⁶	73.47 ²⁶²	44.433 ¹²	25.48 ⁷³
Juli 9	34.358 ¹⁰⁹	67.19 ²⁰⁵	26.01 ¹⁸	34.80 ²⁰⁷	62.049 ²¹⁴	76.09 ²²⁸	44.445 ³¹	26.21 ⁶⁴
19	34.249 ¹⁴⁷	69.24 ¹⁷²	25.83 ²⁷	36.87 ¹⁷⁷	61.835 ²⁶⁴	78.37 ¹⁹⁰	44.414 ⁷³	26.85 ⁵⁴
29	34.102 ¹⁸⁰	70.96 ¹³⁴	25.56 ³⁵	38.64 ¹⁴²	61.571 ³⁰⁸	80.27 ¹⁴⁶	44.341 ¹¹¹	27.39 ⁴⁰
Aug. 8	33.922 ²⁰⁸	72.30 ⁹⁴	25.21 ⁴¹	40.06 ¹⁰⁰	61.263 ³⁴³	81.73 ⁹⁹	44.230 ¹⁴³	27.79 ²⁵
18	33.714 ²²⁹	73.24 ⁵¹	24.80 ⁴⁶	41.06 ⁵⁶	60.920 ³⁷⁰	82.72 ⁵⁰	44.087 ¹⁶⁹	28.04 ⁸
28	33.485 ²⁴¹	73.75 ⁶	24.34 ⁴⁹	41.62 ⁸	60.550 ³⁸⁵	83.22 ¹	43.918 ¹⁸⁵	28.12 ¹⁰
Sept. 7	33.244 ²⁴⁵	73.81 ³⁹	23.85 ⁴⁹	41.70 ⁴¹	60.165 ³⁸⁹	83.21 ⁵²	43.733 ¹⁸⁹	28.02 ²⁸
17	32.999 ²³⁸	73.42 ⁸⁵	23.36 ⁴⁸	41.29 ⁸⁸	59.776 ³⁸⁰	82.69 ¹⁰³	43.544 ¹⁸⁴	27.74 ⁴⁵
27	32.761 ²²¹	72.57 ¹²⁹	22.88 ⁴³	40.41 ¹³²	59.396 ³⁵⁷	81.66 ¹⁵³	43.360 ¹⁶⁶	27.29 ⁶⁰
Okt. 7	32.540 ¹⁹⁴	71.28 ¹⁷³	22.45 ³⁶	39.09 ¹⁷²	59.039 ³²²	80.13 ²⁰¹	43.194 ¹³⁷	26.69 ⁷²
17	32.346 ¹⁵⁷	69.55 ²¹³	22.09 ²⁸	37.37 ²⁰⁷	58.717 ²⁷⁵	78.12 ²⁴⁶	43.057 ⁹⁷	25.97 ⁸⁰
27	32.189 ¹¹²	67.42 ²⁵⁰	21.81 ¹⁷	35.30 ²³¹	58.442 ²¹⁷	75.66 ²⁸⁵	42.960 ⁴⁸	25.17 ⁸³
Nov. 6	32.077 ⁵⁹	64.92 ²⁸²	21.64 ⁵	32.99 ²⁴⁸	58.225 ¹⁴⁸	72.81 ³²⁰	42.912 ⁶	24.34 ⁸²
16	32.018 ³	62.10 ³⁰⁹	21.59 ⁷	30.51 ²⁵⁵	58.077 ⁷³	69.61 ³⁴⁶	42.918 ⁶⁵	23.52 ⁷⁶
26	32.015 ⁵⁶	59.01 ³²⁸	21.66 ²¹	27.96 ²⁵¹	58.004 ⁶	66.15 ³⁶⁵	42.983 ¹²⁵	22.76 ⁶⁵
Dez. 6	32.071 ¹¹⁶	55.73 ³³⁸	21.87 ³³	25.45 ²³⁸	58.010 ⁸⁸	62.50 ³⁷³	43.108 ¹⁸²	22.11 ⁵¹
16	32.187 ¹⁷²	52.35 ³³⁷	22.20 ⁴⁴	23.07 ²¹⁷	58.098 ¹⁶⁸	58.77 ³⁶⁹	43.290 ²³⁴	21.60 ³⁴
26	32.359 ²²³	48.98 ³²⁶	22.64 ⁵⁵	20.90 ¹⁸⁷	58.266 ²⁴¹	55.08 ³⁵⁴	43.524 ²⁷⁹	21.26 ¹⁶
36	32.582	45.72	23.19	19.03	58.507	51.54	43.803	21.10
Mittl. Ort	31.794	69.31	20.40	13.45	59.173	76.36	41.360	10.48
sec δ , tg δ	1.288	+0.811	2.778	—2.592	1.831	+1.534	1.209	—0.679
a, a'	+2.1	—6.8	+6.3	—6.7	+1.1	—6.5	+3.9	—6.4
b, b'	—0.02	+0.94	+0.06	+0.94	—0.03	+0.95	+0.01	+0.95

Tag	629) 49 Herculis		630) ζ^2 Scorpii		631) ζ Arae		633) α Ophiuchi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	16 ^h 48 ^m	+15° 4'	16 ^h 49 ^m	-42° 14'	16 ^h 52 ^m	-55° 52'	16 ^h 54 ^m	+9° 28'
Jan. 1	54.816 ²³⁶	68.33 ²⁴²	41.050 ³²⁹	43.70 ⁴⁸	51.206 ⁴⁰⁵	60.35 ¹¹⁹	22.547 ²³²	41.48 ²¹⁸
11	55.052 ²⁶⁶	65.91 ²²⁸	41.379 ³⁶⁵	43.22 ²⁵	51.611 ⁴⁵⁵	59.16 ⁹⁰	22.779 ²⁶²	39.30 ²⁰⁶
21	55.318 ²⁸⁷	63.63 ²⁰⁴	41.744 ³⁹²	42.97 ²	52.066 ⁴⁹²	58.26 ⁵⁹	23.041 ²⁸⁴	37.24 ¹⁸⁸
31	55.605 ³⁰³	61.59 ¹⁷⁴	42.136 ⁴⁰⁹	42.95 ¹⁸	52.558 ⁵¹⁸	57.67 ²⁶	23.325 ²⁹⁹	35.36 ¹⁶²
Feb. 10	55.908 ³¹⁰	59.85 ¹³⁷	42.545 ⁴¹⁶	43.13 ³⁷	53.076 ⁵³¹	57.41 ⁴	23.624 ³⁰⁶	33.74 ¹³¹
20	56.218 ³¹¹	58.48 ⁹⁵	42.961 ⁴¹⁸	43.50 ⁵⁵	53.607 ⁵³⁵	57.45 ³⁴	23.930 ³⁰⁸	32.43 ⁹⁴
März 2	56.529 ³⁰⁷	57.53 ⁵¹	43.379 ⁴¹²	44.05 ⁶⁹	54.142 ⁵²⁹	57.79 ⁶²	24.238 ³⁰⁴	31.49 ⁵⁵
12	56.836 ²⁹⁷	57.02 ⁷	43.791 ⁴⁰⁰	44.74 ⁸³	54.671 ⁵¹⁷	58.41 ⁸⁹	24.542 ²⁹⁵	30.94 ¹⁶
22	57.133 ²⁸³	56.95 ³⁷	44.191 ³⁸⁵	45.57 ⁹⁴	55.188 ⁴⁹⁷	59.30 ¹¹³	24.837 ²⁸³	30.78 ²⁴
Apr. 1	57.416 ²⁶⁶	57.32 ⁷⁷	44.576 ³⁶⁴	46.51 ¹⁰³	55.685 ⁴⁷⁰	60.43 ¹³³	25.120 ²⁶⁷	31.02 ⁶⁰
11	57.682 ²⁴⁶	58.09 ¹¹²	44.940 ³⁴⁰	47.54 ¹¹¹	56.155 ⁴³⁸	61.76 ¹⁵²	25.387 ²⁴⁸	31.62 ⁹²
21	57.928 ²²²	59.21 ¹⁴²	45.280 ³¹²	48.65 ¹¹⁸	56.593 ⁴⁰⁰	63.28 ¹⁶⁹	25.635 ²²⁶	32.54 ¹²⁰
Mai 1	58.150 ¹⁹⁵	60.63 ¹⁶⁵	45.592 ²⁸⁰	49.83 ¹²⁴	56.993 ³⁵⁷	64.97 ¹⁸²	25.861 ²⁰²	33.74 ¹⁴⁰
11	58.345 ¹⁶⁷	62.28 ¹⁸¹	45.872 ²⁴⁴	51.07 ¹²⁸	57.350 ³⁰⁷	66.79 ¹⁹³	26.063 ¹⁷⁴	35.14 ¹⁵⁵
21	58.512 ¹³⁵	64.09 ¹⁹⁰	46.116 ²⁰³	52.35 ¹³⁰	57.657 ²⁵³	68.72 ¹⁹⁹	26.237 ¹⁴³	36.69 ¹⁶⁴
31	58.647 ¹⁰¹	65.99 ¹⁹²	46.319 ¹⁶⁰	53.65 ¹³¹	57.910 ¹⁹³	70.71 ²⁰¹	26.380 ¹¹¹	38.33 ¹⁶⁷
Juni 9	58.748 ⁶⁶	67.91 ¹⁸⁹	46.479 ¹¹²	54.96 ¹²⁸	58.103 ¹³⁰	72.72 ¹⁹⁹	26.491 ⁷⁶	40.00 ¹⁶⁴
19	58.814 ²⁹	69.80 ¹⁸⁰	46.591 ⁶³	56.24 ¹²³	58.233 ⁶⁵	74.71 ¹⁹³	26.567 ³⁹	41.64 ¹⁵⁷
29	58.843 ⁸	71.60 ¹⁶⁷	46.654 ¹³	57.47 ¹¹⁵	58.298 ¹	76.64 ¹⁸¹	26.606 ⁴³	43.21 ¹⁴⁶
Juli 9	58.835 ⁴³	73.27 ¹⁴⁸	46.667 ³⁶	58.62 ¹⁰³	58.297 ⁶⁶	78.45 ¹⁶³	26.609 ³³	44.67 ¹³¹
19	58.792 ⁷⁸	74.75 ¹²⁸	46.631 ⁸³	59.65 ⁸⁷	58.231 ¹²⁸	80.08 ¹⁴¹	26.576 ⁶⁸	45.98 ¹¹³
29	58.714 ¹¹⁰	76.03 ¹⁰⁴	46.548 ¹²⁶	60.52 ⁶⁹	58.103 ¹⁸⁴	81.49 ¹¹⁴	26.508 ⁹⁹	47.11 ⁹³
Aug. 8	58.604 ¹³⁶	77.07 ⁷⁸	46.422 ¹⁶³	61.21 ⁴⁷	57.919 ²³¹	82.63 ⁸³	26.409 ¹²⁷	48.04 ⁷¹
18	58.468 ¹⁵⁶	77.85 ⁵⁰	46.259 ¹⁹¹	61.68 ²³	57.688 ²⁶⁷	83.46 ⁴⁸	26.282 ¹⁴⁸	48.75 ⁴⁹
28	58.312 ¹⁶⁹	78.35 ²²	46.068 ²⁰⁹	61.91 ²	57.421 ²⁹¹	83.94 ¹¹	26.134 ¹⁶²	49.24 ²⁴
Sept. 7	58.143 ¹⁷⁵	78.57 ⁸	45.859 ²¹⁵	61.89 ²⁸	57.130 ²⁹⁹	84.05 ²⁸	25.972 ¹⁶⁹	49.48 ¹
17	57.968 ¹⁷¹	78.49 ³⁸	45.644 ²¹⁰	61.61 ⁵³	56.831 ²⁹²	83.77 ⁶⁵	25.803 ¹⁶⁵	49.47 ²⁶
27	57.797 ¹⁵⁸	78.11 ⁶⁸	45.434 ¹⁹¹	61.08 ⁷⁶	56.539 ²⁶⁷	83.12 ¹⁰⁰	25.638 ¹⁵³	49.21 ⁵²
Okt. 7	57.639 ¹³⁴	77.43 ⁹⁹	45.243 ¹⁵⁸	60.32 ⁹⁶	56.272 ²²⁶	82.12 ¹³²	25.485 ¹³¹	48.69 ⁷⁸
17	57.505 ¹⁰⁴	76.44 ¹²⁸	45.085 ¹¹⁵	59.36 ¹¹¹	56.046 ¹⁷⁰	80.80 ¹⁵⁹	25.354 ¹⁰¹	47.91 ¹⁰⁴
27	57.401 ⁶⁵	75.16 ¹⁵⁷	44.970 ⁶²	58.25 ¹²¹	55.876 ¹⁰³	79.21 ¹⁷⁹	25.253 ⁶²	46.87 ¹³⁰
Nov. 6	57.336 ²⁰	73.59 ¹⁸⁴	44.908 ¹	57.04 ¹²⁵	55.773 ²⁵	77.42 ¹⁹¹	25.191 ¹⁹	45.57 ¹⁵⁵
16	57.316 ²⁹	71.75 ²⁰⁷	44.907 ⁶⁴	55.79 ¹²²	55.748 ⁵⁸	75.51 ¹⁹⁵	25.172 ²⁹	44.02 ¹⁷⁶
26	57.345 ⁷⁹	69.68 ²²⁶	44.971 ¹²⁹	54.57 ¹¹⁵	55.806 ¹⁴³	73.56 ¹⁹²	25.201 ⁷⁹	42.26 ¹⁹⁵
Dez. 6	57.424 ¹²⁷	67.42 ²³⁹	45.100 ¹⁹³	53.42 ¹⁰²	55.949 ²²⁵	71.64 ¹⁸¹	25.280 ¹²⁶	40.31 ²⁰⁹
16	57.551 ¹⁷³	65.03 ²⁴⁶	45.293 ²⁵¹	52.40 ⁸⁴	56.174 ³⁰²	69.83 ¹⁶²	25.406 ¹⁷¹	38.22 ²¹⁷
26	57.724 ²¹⁴	62.57 ²⁴⁴	45.544 ³⁰²	51.56 ⁶³	56.476 ³⁷⁰	68.21 ¹³⁸	25.577 ²¹¹	36.05 ²¹⁸
36	57.938	60.13	45.846	50.93	56.846	66.83	25.788	33.87
Mittl. Ort	56.311	79.18	43.277	41.75	54.129	59.83	24.061	51.50
sec δ , tg δ	1.036	+0.270	1.351	-0.908	1.783	-1.476	1.014	+0.167
a, a'	+2.7	-6.1	+4.2	-6.1	+5.0	-5.8	+2.9	-5.7
b, b'	-0.01	+0.95	+0.02	+0.95	+0.03	+0.96	0.00	+0.96

Tag	634) ϵ Herculis		637) η Ophiuchi		639) ζ Draconis		640) α Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	16 ^h 57 ^m	+31° 1'	17 ^h 6 ^m	—15° 38'	17 ^h 8 ^m	+65° 47'	17 ^h 11 ^m	+14° 27'
Jan. I	37.348 ²²⁷	24.06 ²⁹⁹	23.423 ²⁴⁷	34.37 ⁸⁶	32.16 ²⁷	43.26 ³⁵³	28.450 ²¹⁶	52.83 ²³⁷
II	37.575 ²⁶⁵	21.07 ²⁷⁶	23.670 ²⁷⁷	35.23 ⁹⁰	32.43 ³⁷	39.73 ³²²	28.666 ²⁴⁸	50.46 ²²⁴
21	37.840 ²⁹³	18.31 ²⁴⁴	23.947 ³⁰⁰	36.13 ⁹¹	32.80 ⁴⁴	36.51 ²⁸²	28.914 ²⁷³	48.22 ²⁰³
31	38.133 ³¹⁴	15.87 ²⁰³	24.247 ³¹⁴	37.04 ⁸⁸	33.24 ⁵¹	33.69 ²³⁰	29.187 ²⁹¹	46.19 ¹⁷⁵
Feb. 10	38.447 ³²⁶	13.84 ¹⁵⁵	24.561 ³²³	37.92 ⁸⁰	33.75 ⁵⁵	31.39 ¹⁷⁰	29.478 ³⁰²	44.44 ¹⁴⁰
20	38.773 ³³¹	12.29 ¹⁰¹	24.884 ³²⁵	38.72 ⁶⁹	34.30 ⁵⁷	29.69 ¹⁰⁶	29.780 ³⁰⁷	43.04 ⁹⁹
März 2	39.104 ³²⁹	11.28 ⁴⁶	25.209 ³²³	39.41 ⁵⁶	34.87 ⁵⁸	28.63 ³⁷	30.087 ³⁰⁶	42.05 ⁵⁶
12	39.433 ³²⁰	10.82 ¹¹	25.532 ³¹⁷	39.97 ⁴⁰	35.45 ⁵⁸	28.26 ³¹	30.393 ³⁰¹	41.49 ¹²
22	39.753 ³⁰⁶	10.93 ⁶⁶	25.849 ³⁰⁶	40.37 ²⁵	36.03 ⁵⁵	28.57 ⁹⁶	30.694 ²⁹¹	41.37 ³²
Apr. I	40.059 ²⁸⁷	11.59 ¹¹⁶	26.155 ²⁹²	40.62 ¹¹	36.58 ⁵¹	29.53 ¹⁵⁷	30.985 ²⁷⁷	41.69 ⁷²
11	40.346 ²⁶³	12.75 ¹⁶⁰	26.447 ²⁷⁶	40.73 ²	37.09 ⁴⁵	31.10 ²¹⁰	31.262 ²⁶⁰	42.41 ¹⁰⁹
21	40.609 ²³⁵	14.35 ¹⁹⁸	26.723 ²⁵⁷	40.71 ¹³	37.54 ³⁸	33.20 ²⁵⁵	31.522 ²³⁹	43.50 ¹³⁹
Mai I	40.844 ²⁰⁵	16.33 ²²⁶	26.980 ²³³	40.58 ²²	37.92 ³¹	35.75 ²⁹⁰	31.761 ²¹⁴	44.89 ¹⁶⁴
11	41.049 ¹⁷¹	18.59 ²⁴⁷	27.213 ²⁰⁸	40.36 ²⁷	38.23 ²²	38.65 ³¹³	31.975 ¹⁸⁷	46.53 ¹⁸¹
21	41.220 ¹³³	21.06 ²⁵⁸	27.421 ¹⁷⁷	40.09 ³¹	38.45 ¹⁴	41.78 ³²⁸	32.162 ¹⁵⁷	48.34 ¹⁹³
31	41.353 ⁹⁴	23.64 ²⁶²	27.598 ¹⁴⁵	39.78 ³¹	38.59 ⁵	45.06 ³³¹	32.319 ¹²³	50.27 ¹⁹⁶
Juni 9*)	41.447 ⁵³	26.26 ²⁵⁷	27.743 ¹⁰⁹	39.47 ³¹	38.64 ⁴	48.37 ³²⁴	32.442 ⁸⁷	52.23 ¹⁹⁵
19	41.500 ¹²	28.83 ²⁴⁵	27.852 ⁷¹	39.16 ²⁹	38.60 ¹³	51.61 ³¹⁰	32.529 ⁴⁹	54.18 ¹⁸⁷
29	41.512 ²⁹	31.28 ²²⁶	27.923 ³²	38.87 ²⁶	38.47 ²¹	54.71 ²⁸⁵	32.578 ¹¹	56.05 ¹⁷⁴
Juli 9	41.483 ⁷⁰	33.54 ²⁰²	27.955 ⁷	38.61 ²³	38.26 ²⁹	57.56 ²⁵⁵	32.589 ²⁷	57.79 ¹⁵⁸
19	41.413 ¹⁰⁷	35.56 ¹⁷³	27.948 ⁴⁶	38.38 ²¹	37.97 ³⁶	60.11 ²¹⁸	32.562 ⁶³	59.37 ¹³⁸
29	41.306 ¹⁴²	37.29 ¹⁴¹	27.902 ⁸⁰	38.17 ¹⁸	37.61 ⁴³	62.29 ¹⁷⁶	32.499 ⁹⁷	60.75 ¹¹⁴
Aug. 8	41.164 ¹⁷¹	38.70 ¹⁰⁵	27.822 ¹¹¹	37.99 ¹⁶	37.18 ⁴⁸	64.05 ¹³¹	32.402 ¹²⁶	61.89 ⁹⁰
18	40.993 ¹⁹⁴	39.75 ⁶⁷	27.711 ¹³⁷	37.83 ¹⁵	36.70 ⁵¹	65.36 ⁸¹	32.276 ¹⁵¹	62.79 ⁶³
28	40.799 ²⁰⁹	40.42 ²⁷	27.574 ¹⁵³	37.68 ¹⁴	36.19 ⁵⁴	66.17 ³¹	32.125 ¹⁶⁸	63.42 ³⁴
Sept. 7	40.590 ²¹⁵	40.69 ¹⁴	27.421 ¹⁶²	37.54 ¹³	35.65 ⁵⁶	66.48 ²²	31.957 ¹⁷⁶	63.76 ⁵
17	40.375 ²¹²	40.55 ⁵⁶	27.259 ¹⁶¹	37.41 ¹¹	35.09 ⁵⁵	66.26 ⁷⁵	31.781 ¹⁷⁶	63.81 ²⁴
27	40.163 ²⁰⁰	39.99 ⁹⁶	27.098 ¹⁵⁰	37.30 ⁹	34.54 ⁵³	65.51 ¹²⁶	31.605 ¹⁶⁶	63.57 ⁵⁴
Okt. 7	39.963 ¹⁷⁶	39.03 ¹³⁷	26.948 ¹²⁷	37.21 ⁵	34.01 ⁴⁹	64.25 ¹⁷⁶	31.439 ¹⁴⁶	63.03 ⁸⁵
17	39.787 ¹⁴⁴	37.66 ¹⁷⁶	26.821 ⁹⁷	37.16 ¹	33.52 ⁴⁴	62.49 ²²⁴	31.293 ¹¹⁸	62.18 ¹¹⁴
27	39.643 ¹⁰⁴	35.90 ²¹²	26.724 ⁵⁷	37.17 ⁹	33.08 ³⁷	60.25 ²⁶⁸	31.175 ⁸²	61.04 ¹⁴³
Nov. 6	39.539 ⁵⁷	33.78 ²⁴⁴	26.667 ¹²	37.26 ²⁰	32.71 ²⁹	57.57 ³⁰⁵	31.093 ³⁹	59.61 ¹⁷⁰
16	39.482 ⁵	31.34 ²⁷²	26.655 ³⁸	37.46 ³¹	32.42 ²⁰	54.52 ³³⁶	31.054 ⁸	57.91 ¹⁹⁴
26	39.477 ⁴⁸	28.62 ²⁹³	26.693 ⁸⁹	37.77 ⁴³	32.22 ¹⁰	51.16 ³⁵⁹	31.062 ⁵⁶	55.97 ²¹⁴
Dez. 6	39.525 ¹⁰³	25.69 ³⁰⁶	26.782 ¹³⁸	38.20 ⁵⁷	32.12 ¹	47.57 ³⁷²	31.118 ¹⁰⁵	53.83 ²²⁹
16	39.628 ¹⁵⁵	22.63 ³¹⁰	26.920 ¹⁸⁵	38.77 ⁶⁹	32.13 ¹¹	43.85 ³⁷³	31.223 ¹⁵¹	51.54 ²³⁷
26	39.783 ²⁰¹	19.53 ³⁰⁵	27.105 ²²⁵	39.46 ⁷⁸	32.24 ²²	40.12 ³⁶³	31.374 ¹⁹³	49.17 ²³⁸
36	39.984	16.48	27.330	40.24	32.46	36.49	31.567	46.79
Mittl. Ort	38.940	36.93	25.118	27.74	34.99	58.27	30.013	63.53
sec δ , tg δ	1.167	+0.602	1.038	—0.280	2.439	+2.225	1.033	+0.258
a, a'	+2.3	—5.4	+3.4	—4.6	+0.2	—4.5	+2.7	—4.2
b, b'	—0.01	+0.96	0.00	+0.97	—0.03	+0.97	0.00	+0.98

*) Bei Stern 640) lies Juni 10

Tag	641) δ Herculis		643) π Herculis		644) θ Ophiuchi		645) β Arae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	17 ^h 12 ^m	+24° 54'	17 ^h 12 ^m	+36° 52'	17 ^h 17 ^m	-24° 55'	17 ^h 19 ^m	-55° 27'
Jan. 1	10.202 ²¹³	58.05 ²⁷⁹	36.868 ²¹⁴	56.31 ³¹⁷	44.328 ²⁵³	62.21 ²⁷	30.617 ³⁶⁶	63.69 ¹⁴²
11	10.415 ²⁴⁸	55.26 ²⁶²	37.082 ²⁵⁶	53.14 ²⁹⁴	44.581 ²⁸⁵	62.48 ³⁶	30.983 ⁴¹⁹	62.27 ¹¹⁷
21	10.663 ²⁷⁷	52.64 ²³⁴	37.338 ²⁹⁰	50.20 ²⁶¹	44.866 ³¹¹	62.84 ⁴⁴	31.402 ⁴⁶³	61.10 ⁸⁹
31	10.940 ²⁹⁷	50.30 ¹⁹⁹	37.628 ³¹⁶	47.59 ²¹⁹	45.177 ³²⁸	63.28 ⁴⁸	31.865 ⁴⁹⁴	60.21 ⁶¹
Feb. 10	11.237 ³¹⁰	48.31 ¹⁵⁶	37.944 ³³³	45.40 ¹⁶⁹	45.505 ³³⁹	63.76 ⁵⁰	32.359 ⁵¹⁵	59.60 ³²
20	11.547 ³¹⁷	46.75 ¹⁰⁷	38.277 ³⁴²	43.71 ¹¹³	45.844 ³⁴⁴	64.26 ⁴⁸	32.874 ⁵²⁵	59.28 ⁴
März 2	11.864 ³¹⁷	45.68 ⁵⁶	38.619 ³⁴⁴	42.58 ⁵³	46.188 ³⁴³	64.74 ⁴⁴	33.399 ⁵²⁷	59.24 ²⁴
12	12.181 ³¹¹	45.12 ⁴	38.963 ³³⁸	42.05 ⁷	46.531 ³³⁸	65.18 ⁴⁰	33.926 ⁵²²	59.48 ⁵⁰
22	12.492 ³⁰¹	45.08 ⁴⁸	39.301 ³²⁶	42.12 ⁶⁵	46.869 ³²⁹	65.58 ³⁴	34.448 ⁵⁰⁸	59.98 ⁷⁵
Apr. 1	12.793 ²⁸⁶	45.56 ⁹⁶	39.627 ³⁰⁸	42.77 ¹¹⁹	47.198 ³¹⁸	65.92 ²⁹	34.956 ⁴⁸⁹	60.73 ⁹⁸
11	13.079 ²⁶⁶	46.52 ¹³⁸	39.935 ²⁸⁴	43.96 ¹⁶⁸	47.516 ³⁰¹	66.21 ²⁴	35.445 ⁴⁶²	61.71 ¹¹⁹
21	13.345 ²⁴³	47.90 ¹⁷⁵	40.219 ²⁵⁶	45.64 ²⁰⁹	47.817 ²⁸²	66.45 ²¹	35.907 ⁴³⁰	62.90 ¹³⁸
Mai 1	13.588 ²¹⁵	49.65 ²⁰⁴	40.475 ²²³	47.73 ²⁴¹	48.099 ²⁵⁹	66.66 ¹⁹	36.337 ³⁹⁰	64.28 ¹⁵⁵
11	13.803 ¹⁸⁵	51.69 ²²⁴	40.698 ¹⁸⁷	50.14 ²⁶⁵	48.358 ²³¹	66.85 ¹⁷	36.727 ³⁴⁵	65.83 ¹⁷⁰
21	13.988 ¹⁵¹	53.93 ²³⁷	40.885 ¹⁴⁶	52.79 ²⁸⁰	48.589 ²⁰¹	67.02 ¹⁸	37.072 ²⁹³	67.53 ¹⁸¹
31	14.139 ¹¹⁵	56.30 ²⁴²	41.031 ¹⁰⁵	55.59 ²⁸⁴	48.790 ¹⁶⁷	67.20 ²⁰	37.365 ²³⁶	69.34 ¹⁸⁸
Juni 10	14.254 ⁷⁶	58.72 ²⁴⁰	41.136 ⁶⁰	58.43 ²⁸²	48.957 ¹²⁸	67.40 ²¹	37.601 ¹⁷⁴	71.22 ¹⁹²
19	14.330 ³⁷	61.12 ²³⁰	41.196 ¹⁵	61.25 ²⁷⁰	49.085 ⁸⁸	67.61 ²²	37.775 ¹⁰⁸	73.14 ¹⁹⁰
29	14.367 ⁵	63.42 ²¹⁵	41.211 ³¹	63.95 ²⁵²	49.173 ⁴⁵	67.83 ²⁴	37.883 ⁴¹	75.04 ¹⁸³
Juli 9	14.362 ⁴⁴	65.57 ¹⁹⁴	41.180 ⁷⁴	66.47 ²²⁸	49.218 ³	68.07 ²²	37.924 ²⁷	76.87 ¹⁷²
19	14.318 ⁸²	67.51 ¹⁶⁹	41.106 ¹¹⁶	68.75 ¹⁹⁷	49.221 ³⁹	68.29 ²²	37.897 ⁹²	78.59 ¹⁵⁵
29	14.236 ¹¹⁷	69.20 ¹⁴⁰	40.990 ¹⁵⁴	70.72 ¹⁶⁴	49.182 ⁷⁸	68.51 ¹⁸	37.805 ¹⁵³	80.14 ¹³²
Aug. 8	14.119 ¹⁴⁷	70.60 ¹⁰⁸	40.836 ¹⁸⁷	72.36 ¹²⁵	49.104 ¹¹²	68.69 ¹³	37.652 ²⁰⁶	81.46 ¹⁰⁴
18	13.972 ¹⁷²	71.68 ⁷⁴	40.649 ²¹²	73.61 ⁸⁵	48.992 ¹⁴¹	68.82 ⁷	37.446 ²⁴⁹	82.50 ⁷³
28	13.800 ¹⁹⁰	72.42 ³⁹	40.437 ²³¹	74.46 ⁴²	48.851 ¹⁶¹	68.89 ¹	37.197 ²⁸⁰	83.23 ³⁸
Sept. 7	13.610 ¹⁹⁸	72.81 ²	40.206 ²⁴⁰	74.88 ²	48.690 ¹⁷²	68.88 ⁹	36.917 ²⁹⁶	83.61 ¹
17	13.412 ¹⁹⁸	72.83 ³⁶	39.966 ²⁴⁰	74.86 ⁴⁷	48.518 ¹⁷³	68.79 ¹⁷	36.621 ²⁹⁷	83.62 ³⁷
27	13.214 ¹⁸⁷	72.47 ⁷³	39.726 ²²⁹	74.39 ⁹¹	48.345 ¹⁶²	68.62 ²⁴	36.324 ²⁸⁰	83.25 ⁷⁴
Okt. 7	13.027 ¹⁶⁸	71.74 ¹¹¹	39.497 ²⁰⁷	73.48 ¹³⁶	48.183 ¹⁴¹	68.38 ³⁰	36.044 ²⁴⁷	82.51 ¹⁰⁸
17	12.859 ¹³⁹	70.63 ¹⁴⁸	39.290 ¹⁷⁶	72.12 ¹⁷⁸	48.042 ¹⁰⁹	68.08 ³³	35.797 ¹⁹⁹	81.43 ¹³⁸
27	12.720 ¹⁰¹	69.15 ¹⁸¹	39.114 ¹³⁶	70.34 ²¹⁷	47.933 ⁶⁹	67.75 ³³	35.598 ¹³⁷	80.05 ¹⁶³
Nov. 6	12.619 ⁵⁷	67.34 ²¹³	38.978 ⁸⁸	68.17 ²⁵³	47.864 ²¹	67.42 ³¹	35.461 ⁶⁴	78.42 ¹⁸⁰
16	12.562 ⁹	65.21 ²⁴¹	38.890 ³⁶	65.64 ²⁸³	47.843 ³⁰	67.11 ²⁴	35.397 ¹⁵	76.62 ¹⁹⁰
26	12.553 ⁴²	62.80 ²⁶²	38.854 ²¹	62.81 ³⁰⁶	47.873 ⁸³	66.87 ¹⁶	35.412 ⁹⁸	74.72 ¹⁹³
Dez. 6	12.595 ⁹⁴	60.18 ²⁷⁸	38.875 ⁷⁸	59.75 ³²¹	47.956 ¹³⁶	66.71 ⁵	35.510 ¹⁸⁰	72.79 ¹⁸⁸
16	12.689 ¹⁴³	57.40 ²⁸⁶	38.953 ¹³³	56.54 ³²⁷	48.092 ¹⁸⁶	66.66 ⁶	35.690 ²⁵⁷	70.91 ¹⁷⁵
26	12.832 ¹⁸⁷	54.54 ²⁸¹	39.086 ¹⁸⁴	53.27 ³²³	48.278 ²²⁹	66.72 ¹⁸	35.947 ³²⁸	69.16 ¹⁵⁸
36	13.019	51.73	39.270	50.04	48.507	66.90	36.275	67.58
Mittl. Ort	11.805	69.93	38.590	69.34	46.166	56.27	33.534	60.87
sec δ , tg δ	1.103	+0.465	1.250	+0.750	1.103	-0.465	1.764	-1.453
a , a'	+2.5	-4.2	+2.1	-4.1	+3.7	-3.7	+5.0	-3.5
b , b'	-0.01	+0.98	-0.01	+0.98	+0.01	+0.98	+0.02	+0.98

Tag	648) δ Arae			651) α Arae			653) β Draconis			652) λ Scorpii		
	AR.	Dekl.		AR.	Dekl.		AR.	Dekl.		AR.	Dekl.	
1931	17 ^h 24 ^m	—60° 37'		17 ^h 26 ^m	—49° 49'		17 ^h 28 ^m	+52° 20'		17 ^h 28 ^m	—37° 3'	
Jan. I	48.56 ⁴⁰	45.51 ¹⁷¹		27.65 ³²²	29.02 ¹¹⁸		50.189 ²⁰⁴	53.02 ³⁵⁰		53.078 ²⁷¹	24.09 ⁵⁰	
II	48.96 ⁴⁷	43.80 ¹⁴⁵		27.972 ³⁷¹	27.84 ⁹⁸		50.393 ²⁶³	49.52 ³²⁶		53.349 ³⁰⁹	23.59 ³⁵	
21	49.43 ⁵¹	42.35 ¹¹⁶		28.343 ⁴⁰⁸	26.86 ⁷⁴		50.656 ³¹⁵	46.26 ²⁹¹		53.658 ³³⁹	23.24 ²⁰	
31	49.94 ⁵⁵	41.19 ⁸⁵		28.751 ⁴³⁷	26.12 ⁵⁰		50.971 ³⁵⁷	43.35 ²⁴⁶		53.997 ³⁶²	23.04 ⁷	
Feb. 10	50.49 ⁵⁹	40.34 ⁵²		29.188 ⁴⁵⁶	25.62 ²⁷		51.328 ³⁸⁸	40.89 ¹⁹¹		54.359 ³⁷⁷	22.97 ⁵	
20	51.08 ⁶⁰	39.82 ¹⁹		29.644 ⁴⁶⁶	25.35 ⁴		51.716 ⁴⁰⁸	38.98 ¹³⁰		54.736 ³⁸⁴	23.02 ¹⁶	
März 2	51.68 ⁶⁰	39.63 ¹²		30.110 ⁴⁶⁹	25.31 ¹⁹		52.124 ⁴¹⁷	37.68 ⁶⁴		55.120 ³⁸⁷	23.18 ²⁶	
12	52.28 ⁵⁹	39.75 ⁴³		30.579 ⁴⁶⁵	25.50 ³⁹		52.541 ⁴¹⁶	37.04 ¹		55.507 ³⁸³	23.44 ³³	
22	52.87 ⁵⁸	40.18 ⁷²		31.044 ⁴⁵⁵	25.89 ⁵⁹		52.957 ⁴⁰⁴	37.05 ⁶⁶		55.890 ³⁷⁵	23.77 ⁴¹	
Apr. I	53.45 ⁵⁶	40.90 ¹⁰¹		31.499 ⁴³⁹	26.48 ⁷⁷		53.361 ³⁸²	37.71 ¹²⁷		56.265 ³⁶⁴	24.18 ⁴⁸	
II	54.01 ⁵³	41.91 ¹²⁵		31.938 ⁴¹⁷	27.25 ⁹⁵		53.743 ³⁵³	38.98 ¹⁸²		56.629 ³⁴⁷	24.66 ⁵⁴	
21	54.54 ⁵⁰	43.16 ¹⁴⁹		32.355 ³⁹¹	28.20 ¹¹¹		54.096 ³¹⁵	40.80 ²³⁰		56.976 ³²⁶	25.20 ⁶¹	
Mai I	55.04 ⁴⁵	44.65 ¹⁷⁰		32.746 ³⁵⁸	29.31 ¹²⁶		54.411 ²⁷¹	43.10 ²⁶⁷		57.302 ³⁰¹	25.81 ⁶⁸	
II	55.49 ³⁹	46.35 ¹⁸⁷		33.104 ³²⁰	30.57 ¹³⁹		54.682 ²²²	45.77 ²⁹⁶		57.603 ²⁷²	26.49 ⁷⁴	
21	55.88 ³⁴	48.22 ²⁰¹		33.424 ²⁷⁶	31.96 ¹⁴⁸		54.904 ¹⁶⁷	48.73 ³¹⁴		57.875 ²³⁶	27.23 ⁸⁰	
31	56.22 ²⁷	50.23 ²¹¹		33.700 ²²⁶	33.44 ¹⁵⁶		55.071 ¹¹⁰	51.87 ³²³		58.111 ¹⁹⁷	28.03 ⁸⁵	
Jun 10	56.49 ²⁰	52.34 ²¹⁶		33.926 ¹⁷²	35.00 ¹⁶¹		55.181 ⁵¹	55.10 ³²²		58.308 ¹⁵⁵	28.88 ⁸⁸	
19	56.69 ¹²	54.50 ²¹⁵		34.098 ¹¹⁵	36.61 ¹⁶¹		55.232 ¹⁰	58.32 ³¹²		58.463 ¹⁰⁷	29.76 ⁹⁰	
29	56.81 ⁴	56.65 ²⁰⁸		34.213 ⁵⁵	38.22 ¹⁵⁷		55.222 ⁷⁰	61.44 ²⁹³		58.570 ⁵⁹	30.66 ⁹⁰	
Juli 9	56.85 ³	58.73 ¹⁹⁶		34.268 ⁶	39.79 ¹⁴⁸		55.152 ¹²⁶	64.37 ²⁶⁸		58.629 ¹⁰	31.56 ⁸⁶	
19	56.82 ¹¹	60.69 ¹⁷⁷		34.262 ⁶⁴	41.27 ¹³⁵		55.026 ¹⁸¹	67.05 ²³⁶		58.639 ³⁸	32.42 ⁷⁹	
29	56.71 ¹⁸	62.46 ¹⁵³		34.198 ¹²⁰	42.62 ¹¹⁷		54.845 ²³⁰	69.41 ¹⁹⁸		58.601 ⁸⁴	33.21 ⁶⁹	
Aug. 8	56.53 ²⁴	63.99 ¹²³		34.078 ¹⁶⁸	43.79 ⁹³		54.615 ²⁷³	71.39 ¹⁵⁶		58.517 ¹²⁵	33.90 ⁵⁵	
18	56.29 ³⁰	65.22 ⁸⁹		33.910 ²⁰⁸	44.72 ⁶⁷		54.342 ³⁰⁷	72.95 ¹¹²		58.392 ¹⁵⁸	34.45 ⁴⁰	
28	55.99 ³³	66.11 ⁵⁰		33.702 ²³⁸	45.39 ³⁸		54.035 ³³¹	74.07 ⁶³		58.234 ¹⁸⁴	34.85 ²¹	
Sept. 7	55.66 ³⁵	66.61 ⁹		33.464 ²⁵⁴	45.77 ⁶		53.704 ³⁴⁵	74.70 ¹³		58.050 ¹⁹⁸	35.06 ¹	
17	55.31 ³⁵	66.70 ³³		33.210 ²⁵⁶	45.83 ²⁸		53.359 ³⁴⁸	74.83 ³⁸		57.852 ²⁰⁰	35.07 ¹⁹	
27	54.96 ³⁴	66.37 ⁷⁵		32.954 ²⁴⁴	45.55 ⁵⁹		53.011 ³³⁸	74.45 ⁸⁸		57.652 ¹⁹¹	34.88 ³⁹	
Okt. 7	54.62 ³⁰	65.62 ¹¹⁴		32.710 ²¹⁶	44.96 ⁸⁹		52.673 ³¹⁶	73.57 ¹³⁸		57.461 ¹⁶⁹	34.49 ⁵⁷	
17	54.32 ²⁴	64.48 ¹⁴⁸		32.494 ¹⁷⁵	44.07 ¹¹⁵		52.357 ²⁸²	72.19 ¹⁸⁷		57.292 ¹³⁵	33.92 ⁷²	
27	54.08 ¹⁸	63.00 ¹⁷⁷		32.319 ¹²²	42.92 ¹³⁷		52.075 ²³⁶	70.32 ²³²		57.157 ⁹²	33.20 ⁸³	
Nov. 6	53.90 ⁹	61.23 ²⁰⁰		32.197 ⁵⁸	41.55 ¹⁵³		51.839 ¹⁸¹	68.00 ²⁷²		57.065 ³⁹	32.37 ⁹¹	
16	53.81 ⁰	59.23 ²¹³		32.139 ¹²	40.02 ¹⁶¹		51.658 ¹¹⁷	65.28 ³⁰⁷		57.026 ¹⁸	31.46 ⁹³	
26	53.81 ⁹	57.10 ²¹⁸		32.151 ⁸⁵	38.41 ¹⁶³		51.541 ⁴⁹	62.21 ³³⁵		57.044 ⁷⁷	30.53 ⁹¹	
Dez. 6	53.90 ¹⁸	54.92 ²¹⁶		32.236 ¹⁵⁸	36.78 ¹⁵⁹		51.492 ²²	58.86 ³⁵²		57.121 ¹³⁷	29.62 ⁸⁵	
16	54.08 ²⁷	52.76 ²⁰⁵		32.394 ²²⁶	35.19 ¹⁴⁸		51.514 ⁹⁴	55.34 ³⁶⁰		57.258 ¹⁹³	28.77 ⁷⁴	
26	54.35 ³⁶	50.71 ¹⁸⁷		32.620 ²⁸⁸	33.71 ¹³²		51.608 ¹⁶³	51.74 ³⁵⁵		57.451 ²⁴³	28.03 ⁶¹	
36	54.71	48.84		32.908	32.39		51.771	48.19		57.694	27.42	
Mittl. Ort	51.90	42.65		30.232	25.14		52.366	66.36		55.184	18.83	
sec δ , tg δ	2.039	—1.777		1.550	—1.184		1.637	+1.296		1.253	—0.755	
a, a'	+5.4	—3.1		+4.6	—2.9		+1.4	—2.7		+4.1	—2.7	
b, b'	+0.02	+0.99		+0.01	+0.99		—0.01	+0.99		+0.01	+0.99	

Tag	656) α Ophiuchi		654) θ Scorpii		658) ξ Serpentis		664) ω Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	17 ^h 31 ^m	+12° 36'	17 ^h 32 ^m	—42° 57'	17 ^h 33 ^m	—15° 21'	17 ^h 37 ^m	+68° 46'
Jan. I	42.217 ¹⁹⁹	21.58 ²²⁶	19.137 ²⁸⁵	26.31 ⁸⁶	36.307 ²²²	31.85 ⁷⁴	17.69 ²²	70.81 ³⁵⁹
II	42.416 ²³²	19.32 ²¹⁵	19.422 ³²⁹	25.45 ⁶⁹	36.529 ²⁵⁵	32.59 ⁷⁸	17.91 ³³	67.22 ³³⁵
21	42.648 ²⁵⁹	17.17 ¹⁹⁷	19.751 ³⁶³	24.76 ⁵⁰	36.784 ²⁸¹	33.37 ⁷⁷	18.24 ⁴²	63.87 ³⁰¹
31	42.907 ²⁷⁹	15.20 ¹⁷²	20.114 ³⁸⁸	24.26 ³³	37.065 ²⁹⁹	34.14 ⁷³	18.66 ⁵¹	60.86 ²⁵⁵
Feb. 10	43.186 ²⁹³	13.48 ¹³⁹	20.502 ⁴⁰⁵	23.93 ¹⁵	37.364 ³¹²	34.87 ⁶⁵	19.17 ⁵⁷	58.31 ²⁰⁰
20	43.479 ³⁰²	12.09 ¹⁰¹	20.907 ⁴¹⁴	23.78 ¹	37.676 ³¹⁹	35.52 ⁵³	19.74 ⁶²	56.31 ¹³⁷
März 2	43.781 ³⁰⁴	11.08 ⁶⁰	21.321 ⁴¹⁸	23.79 ¹⁶	37.995 ³²²	36.05 ⁴⁰	20.36 ⁶⁴	54.94 ⁷⁰
12	44.085 ³⁰²	10.48 ¹⁷	21.739 ⁴¹⁶	23.95 ³¹	38.317 ³¹⁹	36.45 ²⁵	21.00 ⁶⁵	54.24 ³
22	44.387 ²⁹⁶	10.31 ²⁶	22.155 ⁴⁰⁷	24.26 ⁴⁴	38.636 ³¹²	36.70 ⁹	21.65 ⁶³	54.21 ⁶⁵
Apr. I	44.683 ²⁸⁵	10.57 ⁶⁵	22.562 ³⁹⁵	24.70 ⁵⁶	38.948 ³⁰⁴	36.79 ⁵	22.28 ⁵⁹	54.86 ¹²⁷
II	44.968 ²⁷¹	11.22 ¹⁰¹	22.957 ³⁷⁸	25.26 ⁶⁸	39.252 ²⁹¹	36.74 ¹⁸	22.87 ⁵⁴	56.13 ¹⁸⁵
21	45.239 ²⁵³	12.23 ¹³²	23.335 ³⁵⁵	25.94 ⁸⁰	39.543 ²⁷⁵	36.56 ²⁸	23.41 ⁴⁸	57.98 ²³⁵
Mai I	45.492 ²³¹	13.55 ¹⁵⁶	23.690 ³²⁸	26.74 ⁹¹	39.818 ²⁵⁴	36.28 ³⁷	23.89 ⁴⁰	60.33 ²⁷⁵
11	45.723 ²⁰⁵	15.11 ¹⁷⁶	24.018 ²⁹⁵	27.65 ¹⁰¹	40.072 ²³⁰	35.91 ⁴¹	24.29 ³⁰	63.08 ³⁰⁵
21	45.928 ¹⁷⁶	16.87 ¹⁸⁷	24.313 ²⁵⁷	28.66 ¹⁰⁹	40.302 ²⁰²	35.50 ⁴³	24.59 ²¹	66.13 ³²⁵
31	46.104 ¹⁴³	18.74 ¹⁹³	24.570 ²¹⁴	29.75 ¹¹⁶	40.504 ¹⁶⁹	35.07 ⁴³	24.80 ¹¹	69.38 ³³⁶
Juni 10	46.247 ¹⁰⁷	20.67 ¹⁹²	24.784 ¹⁶⁸	30.91 ¹²¹	40.673 ¹³⁵	34.64 ⁴¹	24.91 ¹	72.74 ³³⁶
19	46.354 ⁷⁰	22.59 ¹⁸⁶	24.952 ¹¹⁷	32.12 ¹²³	40.808 ⁹⁶	34.23 ³⁷	24.92 ⁹	76.10 ³²⁶
29	46.424 ³¹	24.45 ¹⁷⁴	25.069 ⁶³	33.35 ¹²¹	40.904 ⁵⁶	33.86 ³²	24.83 ²⁰	79.36 ³⁰⁹
Juli 9	46.455 ⁸	26.19 ¹⁶⁰	25.132 ¹⁰	34.56 ¹¹⁶	40.960 ¹⁵	33.54 ²⁷	24.63 ²⁹	82.45 ²⁸³
19	46.447 ⁴⁷	27.79 ¹⁴⁰	25.142 ⁴³	35.72 ¹⁰⁷	40.975 ²⁶	33.27 ²²	24.34 ³⁸	85.28 ²⁵¹
29	46.400 ⁸³	29.19 ¹¹⁹	25.099 ⁹³	36.79 ⁹⁴	40.949 ⁶⁴	33.05 ¹⁷	23.96 ⁴⁶	87.79 ²¹³
Aug. 8	46.317 ¹¹⁴	30.38 ⁹⁵	25.006 ¹³⁸	37.73 ⁷⁶	40.885 ⁹⁸	32.88 ¹³	23.50 ⁵²	89.92 ¹⁷¹
18	46.203 ¹⁴²	31.33 ⁷⁰	24.868 ¹⁷⁴	38.49 ⁵⁶	40.787 ¹²⁷	32.75 ¹¹	22.98 ⁵⁸	91.63 ¹²⁴
28	46.061 ¹⁶¹	32.03 ⁴³	24.694 ²⁰²	39.05 ³²	40.660 ¹⁴⁹	32.64 ⁹	22.40 ⁶²	92.87 ⁷⁴
Sept. 7	45.900 ¹⁷³	32.46 ¹⁶	24.492 ²¹⁹	39.37 ⁷	40.511 ¹⁶²	32.55 ⁷	21.78 ⁶⁴	93.61 ²³
17	45.727 ¹⁷⁶	32.62 ¹³	24.273 ²²²	39.44 ¹⁹	40.349 ¹⁶⁵	32.48 ⁴	21.14 ⁶⁵	93.84 ³⁰
27	45.551 ¹⁷⁰	32.49 ⁴¹	24.051 ²¹²	39.25 ⁴⁵	40.184 ¹⁵⁸	32.44 ³	20.49 ⁶³	93.54 ⁸²
Okt. 7	45.381 ¹⁵³	32.08 ⁷⁰	23.839 ¹⁹⁰	38.80 ⁶⁹	40.026 ¹⁴¹	32.41 ¹	19.86 ⁶¹	92.72 ¹³⁴
17	45.228 ¹²⁷	31.38 ⁹⁸	23.649 ¹⁵³	38.11 ⁹⁰	39.885 ¹¹⁴	32.42 ⁵	19.25 ⁵⁵	91.38 ¹⁸⁵
27	45.101 ⁹³	30.40 ¹²⁷	23.496 ¹⁰⁶	37.21 ¹⁰⁷	39.771 ⁷⁷	32.47 ¹¹	18.70 ⁴⁹	89.53 ²³²
Nov. 6	45.008 ⁵⁴	29.13 ¹⁵³	23.390 ⁵¹	36.14 ¹¹⁸	39.694 ³⁵	32.58 ²⁰	18.21 ⁴¹	87.21 ²⁷⁴
16	44.954 ⁸	27.60 ¹⁷⁷	23.339 ¹¹	34.96 ¹²⁵	39.659 ¹²	32.78 ²⁹	17.80 ³¹	84.47 ³¹⁰
26	44.946 ³⁹	25.83 ¹⁹⁷	23.350 ⁷⁵	33.71 ¹²⁵	39.671 ⁶²	33.07 ³⁹	17.49 ²⁰	81.37 ³³⁹
Dez. 6	44.985 ⁸⁸	23.86 ²¹³	23.425 ¹³⁹	32.46 ¹²¹	39.733 ¹¹¹	33.46 ⁵⁰	17.29 ⁹	77.98 ³⁵⁹
16	45.073 ¹³³	21.73 ²²²	23.564 ²⁰¹	31.25 ¹¹¹	39.844 ¹⁵⁷	33.96 ⁶⁰	17.20 ³	74.39 ³⁶⁷
26	45.206 ¹⁷⁵	19.51 ²²⁵	23.765 ²⁵⁶	30.14 ⁹⁸	40.001 ¹⁹⁹	34.56 ⁶⁸	17.23 ¹⁵	70.72 ³⁶⁵
36	45.381	17.26	24.021	29.16	40.200	35.24	17.38	67.07
Mittl. Ort sec δ , tg δ	43.828 1.025	31.99 +0.224	21.428 1.366	21.37 —0.931	38.036 1.037	24.16 —0.275	21.15 2.764	84.06 +2.577
a, a'	+2.8	—2.5	+4.3	—2.4	+3.4	—2.3	—0.4	—2.0
b, b'	0.00	+0.99	+0.01	+0.99	0.00	+0.99	—0.02	+1.00

Tag	663) ϵ Herculis		661) η Pavonis		665) β Ophiuchi		670) ψ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	17 ^h 37 ^m	+46° 2'	17 ^h 38 ^m	-64° 41'	17 ^h 40 ^m	+4° 35'	17 ^h 43 ^m	+72° 10'
Jan. I	28.961 ¹⁸⁷	18.96 ³⁴⁰	53.53 ⁴²	39.34 ²⁰²	2.154 ¹⁹⁶	31.08 ¹⁸³	5.56 ²²	46.64 ³⁶⁰
II	29.148 ²⁴⁰	15.56 ³²⁰	53.95 ⁵⁰	37.32 ¹⁷⁷	2.350 ²²⁹	29.25 ¹⁷⁷	5.78 ³⁵	43.04 ³³⁹
21	29.388 ²⁸⁴	12.36 ²⁸⁸	54.45 ⁵⁶	35.55 ¹⁴⁸	2.579 ²⁵⁶	27.48 ¹⁶³	6.13 ⁴⁷	39.65 ³⁰⁴
31	29.672 ³²¹	9.48 ²⁴⁵	55.01 ⁶¹	34.07 ¹¹⁷	2.835 ²⁷⁵	25.85 ¹⁴⁴	6.60 ⁵⁷	36.61 ²⁶⁰
Feb. 10	29.993 ³⁴⁹	7.03 ¹⁹⁴	55.62 ⁶⁵	32.90 ⁸²	3.110 ²⁹⁰	24.41 ¹¹⁸	7.17 ⁶⁴	34.01 ²⁰⁶
20	30.342 ³⁶⁷	5.09 ¹³⁶	56.27 ⁶⁶	32.08 ⁴⁸	3.400 ²⁹⁸	23.23 ⁸⁷	7.81 ⁷¹	31.95 ¹⁴⁴
März 2	30.709 ³⁷⁷	3.73 ⁷⁴	56.93 ⁶⁸	31.60 ¹³	3.698 ³⁰²	22.36 ⁵⁴	8.52 ⁷⁴	30.51 ⁷⁹
12	31.086 ³⁷⁷	2.99 ⁹	57.61 ⁶⁸	31.47 ²¹	4.000 ³⁰¹	21.82 ¹⁹	9.26 ⁷⁵	29.72 ¹⁰
22	31.463 ³⁶⁹	2.90 ⁵⁴	58.29 ⁶⁷	31.68 ⁵⁴	4.301 ²⁹⁶	21.63 ¹⁷	10.01 ⁷³	29.62 ⁵⁶
Apr. I	31.832 ³⁵³	3.44 ¹¹⁴	58.96 ⁶⁴	32.22 ⁸⁶	4.597 ²⁸⁸	21.80 ⁵⁰	10.74 ⁶⁹	30.18 ¹¹⁹
II	32.185 ³²⁹	4.58 ¹⁶⁸	59.60 ⁶²	33.08 ¹¹⁶	4.885 ²⁷⁵	22.30 ⁸¹	11.43 ⁶⁴	31.37 ¹⁷⁸
21	32.514 ²⁹⁹	6.26 ²¹⁵	60.22 ⁵⁸	34.24 ¹⁴³	5.160 ²⁶⁰	23.11 ¹⁰⁶	12.07 ⁵⁶	33.15 ²²⁷
Mai I	32.813 ²⁶⁴	8.41 ²⁵⁴	60.80 ⁵²	35.67 ¹⁶⁸	5.420 ²³⁹	24.17 ¹²⁷	12.63 ⁴⁶	35.42 ²⁶⁹
II	33.077 ²²²	10.95 ²⁸³	61.32 ⁴⁷	37.35 ¹⁹⁰	5.659 ²¹⁵	25.44 ¹⁴²	13.09 ³⁶	38.11 ³⁰⁰
21	33.299 ¹⁷⁵	13.78 ³⁰²	61.79 ⁴¹	39.25 ²⁰⁸	5.874 ¹⁸⁸	26.86 ¹⁵³	13.45 ²⁴	41.11 ³²²
31	33.474 ¹²⁷	16.80 ³¹³	62.20 ³²	41.33 ²²¹	6.062 ¹⁵⁷	28.39 ¹⁵⁶	13.69 ¹²	44.33 ³³³
Juni 10	33.601 ⁷⁵	19.93 ³¹³	62.52 ²⁵	43.54 ²²⁹	6.219 ¹²²	29.95 ¹⁵⁵	13.81 ⁰	47.66 ³³⁴
19	33.676 ²¹	23.06 ³⁰⁵	62.77 ¹⁶	45.83 ²³¹	6.341 ⁸⁵	31.50 ¹⁵⁰	13.81 ¹²	51.00 ³²⁷
29	33.697 ³²	26.11 ²⁸⁹	62.93 ⁶	48.14 ²²⁷	6.426 ⁴⁶	33.00 ¹⁴¹	13.69 ²⁴	54.27 ³¹⁰
Juli 9	33.665 ⁸⁴	29.00 ²⁶⁶	62.99 ³	50.41 ²¹⁷	6.472 ⁸	34.41 ¹²⁸	13.45 ³⁵	57.37 ²⁸⁵
19	33.581 ¹³⁴	31.66 ²³⁶	62.96 ¹¹	52.58 ²⁰⁰	6.480 ³²	35.69 ¹¹³	13.10 ⁴⁶	60.22 ²⁵⁴
29	33.447 ¹⁸⁰	34.02 ²⁰¹	62.85 ¹⁹	54.58 ¹⁷⁷	6.448 ⁶⁹	36.82 ⁹⁶	12.64 ⁵⁵	62.76 ²¹⁷
Aug. 8	33.267 ²²⁰	36.03 ¹⁶¹	62.66 ²⁷	56.35 ¹⁴⁶	6.379 ¹⁰¹	37.78 ⁷⁸	12.09 ⁶³	64.93 ¹⁷⁶
18	33.047 ²⁵³	37.64 ¹¹⁹	62.39 ³³	57.81 ¹¹⁰	6.278 ¹³⁰	38.56 ⁵⁹	11.46 ⁶⁹	66.69 ¹³⁰
28	32.794 ²⁷⁷	38.83 ⁷³	62.06 ³⁸	58.91 ⁷¹	6.148 ¹⁵¹	39.15 ³⁸	10.77 ⁷⁴	67.99 ⁸⁰
Sept. 7	32.517 ²⁹²	39.56 ²⁵	61.68 ⁴¹	59.62 ²⁷	5.997 ¹⁶³	39.53 ¹⁷	10.03 ⁷⁸	68.79 ³⁰
17	32.225 ²⁹⁷	39.81 ²³	61.27 ⁴¹	59.89 ¹⁸	5.834 ¹⁶⁸	39.70 ⁴	9.25 ⁷⁸	69.09 ²²
27	31.928 ²⁹⁰	39.58 ⁷²	60.86 ⁴⁰	59.71 ⁶³	5.666 ¹⁶³	39.66 ²⁵	8.47 ⁷⁷	68.87 ⁷⁵
Okt. 7	31.638 ²⁷¹	38.86 ¹²¹	60.46 ³⁷	59.08 ¹⁰⁷	5.503 ¹⁴⁷	39.41 ⁴⁸	7.70 ⁷³	68.12 ¹²⁷
17	31.367 ²⁴¹	37.65 ¹⁶⁹	60.09 ³¹	58.01 ¹⁴⁷	5.356 ¹²³	38.93 ⁶⁹	6.97 ⁶⁹	66.85 ¹⁷⁸
27	31.126 ²⁰¹	35.96 ²¹²	59.78 ²³	56.54 ¹⁸⁰	5.233 ⁹¹	38.24 ⁹²	6.28 ⁶¹	65.07 ²²⁵
Nov. 6	30.925 ¹⁵²	33.84 ²⁵⁴	59.55 ¹⁵	54.74 ²⁰⁸	5.142 ⁵⁰	37.32 ¹¹⁴	5.67 ⁵¹	62.82 ²⁶⁸
16	30.773 ⁹⁷	31.30 ²⁸⁹	59.40 ⁵	52.66 ²²⁶	5.092 ⁷	36.18 ¹³⁴	5.16 ⁴¹	60.14 ³⁰⁶
26	30.676 ³⁶	28.41 ³¹⁷	59.35 ⁶	50.40 ²³⁷	5.085 ⁴⁰	34.84 ¹⁵¹	4.75 ²⁸	57.08 ³³⁵
Dez. 6	30.640 ²⁸	25.24 ³³⁶	59.41 ¹⁷	48.03 ²³⁹	5.125 ⁸⁷	33.33 ¹⁶⁶	4.47 ¹⁵	53.73 ³⁵⁶
16	30.668 ⁸⁸	21.88 ³⁴⁶	59.58 ²⁷	45.64 ²³²	5.212 ¹³¹	31.67 ¹⁷⁶	4.32 ⁰	50.17 ³⁶⁶
26	30.756 ¹⁵⁴	18.42 ³⁴⁴	59.85 ³⁶	43.32 ²¹⁷	5.343 ¹⁷³	29.91 ¹⁸⁰	4.32 ¹³	46.51 ³⁶⁵
36	30.910	14.98	60.21	41.15	5.516	28.11	4.45	42.86
Mittl. Ort	30.977	31.57	57.33	35.51	3.781	40.77	9.66	59.51
sec δ , tg δ	1.441	+1.037	2.339	-2.115	1.003	+0.080	3.268	+3.112
a , a'	+1.7	-2.0	+5.9	-1.8	+3.0	-1.7	-1.1	-1.5
b , b'	-0.01	+1.00	+0.01	+1.00	0.00	+1.00	-0.02	+1.00

Obere Kulmination Greenwich

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Tag	667) μ Herculis		671) ξ Draconis		675) ζ Draconis		672) δ Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	17 ^h 43 ^m	+27° 45'	17 ^h 52 ^m	+56° 52'	17 ^h 52 ^m	+76° 57'	17 ^h 53 ^m	+37° 15'
Jan. I	43.682 ₁₈₀	24.27 ₂₉₀	17.601 ₁₆₈	46.52 ₃₅₈	26.53 ₂₁	71.09 ₃₅₆	51.286 ₁₆₅	19.73 ₃₁₈
II	43.862 ₂₁₈	21.37 ₂₇₅	17.769 ₂₄₀	42.94 ₃₃₈	26.74 ₃₉	67.53 ₃₃₇	51.451 ₂₁₂	16.55 ₃₀₃
21	44.080 ₂₅₂	18.62 ₂₅₀	18.009 ₃₀₃	39.56 ₃₀₈	27.13 ₅₆	64.16 ₃₀₅	51.663 ₂₅₁	13.52 ₂₇₆
31	44.332 ₂₇₈	16.12 ₂₁₆	18.312 ₃₅₆	36.48 ₂₆₆	27.69 ₇₀	61.11 ₂₆₃	51.914 ₂₈₄	10.76 ₂₄₀
Feb. 10	44.610 ₂₉₇	13.96 ₁₇₄	18.668 ₃₉₉	33.82 ₂₁₃	28.39 ₈₃	58.48 ₂₁₂	52.198 ₃₁₀	8.36 ₁₉₄
20	44.907 ₃₁₁	12.22 ₁₂₇	19.067 ₄₂₉	31.69 ₁₅₄	29.22 ₉₁	56.36 ₁₅₂	52.508 ₃₂₇	6.42 ₁₄₁
März 2	45.218 ₃₁₇	10.95 ₇₄	19.496 ₄₄₈	30.15 ₈₉	30.13 ₉₆	54.84 ₈₇	52.835 ₃₃₇	5.01 ₈₃
12	45.535 ₃₁₈	10.21 ₁₉	19.944 ₄₅₅	29.26 ₂₃	31.09 ₉₉	53.97 ₂₁	53.172 ₃₄₁	4.18 ₂₄
22	45.853 ₃₁₃	10.02 ₃₅	20.399 ₄₄₉	29.03 ₄₅	32.08 ₉₈	53.76 ₄₆	53.513 ₃₃₈	3.94 ₃₆
Apr. I	46.166 ₃₀₃	10.37 ₈₆	20.848 ₄₃₂	29.48 ₁₀₇	33.06 ₉₂	54.22 ₁₀₉	53.851 ₃₂₈	4.30 ₉₃
II	46.469 ₂₈₇	11.23 ₁₃₃	21.280 ₄₀₄	30.55 ₁₆₆	33.98 ₈₅	55.31 ₁₆₇	54.179 ₃₁₁	5.23 ₁₄₆
21	46.756 ₂₆₇	12.56 ₁₇₃	21.684 ₃₆₆	32.21 ₂₁₇	34.83 ₇₅	56.98 ₂₁₉	54.490 ₂₈₉	6.69 ₁₉₁
Mai I	47.023 ₂₄₃	14.29 ₂₀₇	22.050 ₃₂₀	34.38 ₂₆₀	35.58 ₆₂	59.17 ₂₆₀	54.779 ₂₆₂	8.60 ₂₃₀
II	47.266 ₂₁₃	16.36 ₂₃₂	22.370 ₂₆₇	36.98 ₂₉₄	36.20 ₄₈	61.77 ₂₉₄	55.041 ₂₂₉	10.90 ₂₆₀
21	47.479 ₁₈₀	18.68 ₂₄₉	22.637 ₂₀₈	39.92 ₃₁₇	36.68 ₃₂	64.71 ₃₁₈	55.270 ₁₉₂	13.50 ₂₈₁
31	47.659 ₁₄₃	21.17 ₂₅₈	22.845 ₁₄₄	43.09 ₃₃₀	37.00 ₁₆	67.89 ₃₃₀	55.462 ₁₅₀	16.31 ₂₉₂
Juni 10	47.802 ₁₀₅	23.75 ₂₅₉	22.989 ₇₈	46.39 ₃₃₄	37.16 ₁	71.19 ₃₃₄	55.612 ₁₀₆	19.23 ₂₉₆
19*)	47.907 ₆₂	26.34 ₂₅₄	23.067 ₉	49.73 ₃₂₉	37.15 ₁₇	74.53 ₃₂₈	55.718 ₆₀	22.19 ₂₉₀
29	47.969 ₁₉	28.88 ₂₄₀	23.076 ₆₀	53.02 ₃₁₄	36.98 ₃₄	77.81 ₃₁₄	55.778 ₁₁	25.09 ₂₇₈
Juli 9	47.988 ₂₄	31.28 ₂₂₁	23.016 ₁₂₅	56.16 ₂₉₁	36.64 ₄₉	80.95 ₂₉₁	55.789 ₃₇	27.87 ₂₅₈
19	47.964 ₆₆	33.49 ₁₉₇	22.891 ₁₈₉	59.07 ₂₆₃	36.15 ₆₃	83.86 ₂₆₂	55.752 ₈₃	30.45 ₂₃₂
29	47.898 ₁₀₅	35.46 ₁₆₉	22.702 ₂₄₇	61.70 ₂₂₉	35.52 ₇₆	86.48 ₂₂₇	55.669 ₁₂₆	32.77 ₂₀₂
Aug. 8	47.793 ₁₄₀	37.15 ₁₃₇	22.455 ₂₉₈	63.99 ₁₈₈	34.76 ₈₇	88.75 ₁₈₇	55.543 ₁₆₅	34.79 ₁₆₆
18	47.653 ₁₇₀	38.52 ₁₀₂	22.157 ₃₄₀	65.87 ₁₄₄	33.89 ₉₇	90.62 ₁₄₃	55.378 ₁₉₈	36.45 ₁₂₈
28	47.483 ₁₉₂	39.54 ₆₅	21.817 ₃₇₃	67.31 ₉₆	32.92 ₁₀₂	92.05 ₉₆	55.180 ₂₂₃	37.73 ₈₆
Sept. 7	47.291 ₂₀₆	40.19 ₂₇	21.444 ₃₉₄	68.27 ₄₆	31.90 ₁₀₇	93.01 ₄₅	54.957 ₂₄₀	38.59 ₄₃
17	47.085 ₂₁₁	40.46 ₁₂	21.050 ₄₀₂	68.73 ₅	30.83 ₁₀₉	93.46 ₆	54.717 ₂₄₇	39.02 ₂
27	46.874 ₂₀₆	40.34 ₅₂	20.648 ₃₉₇	68.68 ₅₈	29.74 ₁₀₈	93.40 ₅₈	54.470 ₂₄₄	39.00 ₄₇
Okt. 7	46.668 ₁₉₁	39.82 ₉₂	20.251 ₃₈₀	68.10 ₁₀₉	28.66 ₁₀₄	92.82 ₁₁₀	54.226 ₂₂₉	38.53 ₉₃
17	46.477 ₁₆₇	38.90 ₁₃₁	19.871 ₃₄₈	67.01 ₁₆₀	27.62 ₉₈	91.72 ₁₆₁	53.997 ₂₀₅	37.60 ₁₃₇
27	46.310 ₁₃₃	37.59 ₁₆₉	19.523 ₃₀₃	65.41 ₂₀₉	26.64 ₈₈	90.11 ₂₀₈	53.792 ₁₇₁	36.23 ₁₈₀
Nov. 6	46.177 ₉₂	35.90 ₂₀₄	19.220 ₂₄₉	63.32 ₂₅₃	25.76 ₇₇	88.03 ₂₅₃	53.621 ₁₂₉	34.43 ₂₂₀
16	46.085 ₄₅	33.86 ₂₃₄	18.971 ₁₈₄	60.79 ₂₉₂	24.99 ₆₃	85.50 ₂₉₁	53.492 ₈₁	32.23 ₂₅₄
26	46.040 ₄	31.52 ₂₅₉	18.787 ₁₁₁	57.87 ₃₂₃	24.36 ₄₆	82.59 ₃₂₂	53.411 ₂₈	29.69 ₂₈₃
Dez. 6	46.044 ₅₅	28.93 ₂₇₉	18.676 ₃₄	54.64 ₃₄₆	23.90 ₂₉	79.37 ₃₄₆	53.383 ₂₇	26.86 ₃₀₅
16	46.099 ₁₀₅	26.14 ₂₈₉	18.642 ₄₄	51.18 ₃₅₉	23.61 ₁₀	75.91 ₃₅₈	53.410 ₈₃	23.81 ₃₁₈
26	46.204 ₁₅₂	23.25 ₂₉₁	18.686 ₁₂₃	47.59 ₃₆₀	23.51 ₉	72.33 ₃₅₈	53.493 ₁₃₅	20.63 ₃₁₉
36	46.356	20.34	18.809	43.99	23.60	68.75	53.628	17.44
Mittl. Ort	45.404	35.64	20.124	58.62	32.10	83.26	53.167	31.21
sec δ , tg δ	1.130	+0.526	1.830	+1.533	4.436	+4.322	1.256	+0.761
a, a'	+2.4	-1.4	+1.0	-0.7	-2.7	-0.7	+2.1	-0.5
b, b'	0.00	+1.00	0.00	+1.00	-0.01	+1.00	0.00	+1.00

*) Bei Stern 671), 675) und 672) lies Juni 20

Tag	676) γ Draconis		673) ν Ophiuchi		677) δ Ophiuchi		679) γ Sagittarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	17 ^h 54 ^m	+51° 29'	17 ^h 55 ^m	—9° 45'	17 ^h 57 ^m	+2° 55'	18 ^h 1 ^m	—30° 25'
Jan. 1	57.919 ¹⁶³	34.85 ³⁵¹	11.920 ¹⁹⁶	68.63 ⁹⁷	9.669 ¹⁸²	50.80 ¹⁶⁹	20.499 ²²⁰	43.86 ³⁰
11	58.082 ²²⁴	31.34 ³³³	12.116 ²²⁹	69.60 ⁹⁸	9.851 ²¹⁵	49.11 ¹⁶⁴	20.719 ²⁵⁹	43.56 ²²
21	58.306 ²⁷⁸	28.01 ³⁰⁴	12.345 ²⁵⁷	70.58 ⁹⁴	10.066 ²⁴⁴	47.47 ¹⁵³	20.978 ²⁹⁰	43.34 ¹⁶
31	58.584 ³²⁴	24.97 ²⁶²	12.602 ²⁷⁸	71.52 ⁸⁴	10.310 ²⁶⁵	45.94 ¹³⁵	21.268 ³¹⁶	43.18 ⁹
Feb. 10	58.908 ³⁶¹	22.35 ²¹³	12.880 ²⁹³	72.36 ⁷¹	10.575 ²⁸²	44.59 ¹¹¹	21.584 ³³⁴	43.09 ⁴
20	59.269 ³⁸⁷	20.22 ¹⁵⁴	13.173 ³⁰⁴	73.07 ⁵⁴	10.857 ²⁹³	43.48 ⁸³	21.918 ³⁴⁶	43.05 ²
März 2	59.656 ⁴⁰³	18.68 ⁹¹	13.477 ³¹⁰	73.61 ³⁵	11.150 ²⁹⁹	42.65 ⁵¹	22.264 ³⁵⁴	43.03 ⁰
12	60.059 ⁴⁰⁹	17.77 ²⁶	13.787 ³¹¹	73.96 ¹⁴	11.449 ³⁰¹	42.14 ¹⁷	22.618 ³⁵⁷	43.03 ¹
22	60.468 ⁴⁰⁵	17.51 ⁴⁰	14.098 ³⁰⁸	74.10 ⁸	11.750 ²⁹⁹	41.97 ¹⁶	22.975 ³⁵⁵	43.04 ²
Apr. 1	60.873 ³⁹¹	17.91 ¹⁰²	14.406 ³⁰³	74.02 ²⁷	12.049 ²⁹⁴	42.13 ⁴⁹	23.330 ³⁵⁰	43.06 ³
11	61.264 ³⁶⁸	18.93 ¹⁶⁰	14.709 ²⁹³	73.75 ⁴⁵	12.343 ²⁸³	42.62 ⁷⁸	23.680 ³³⁹	43.09 ⁵
21	61.632 ³³⁷	20.53 ²¹¹	15.002 ²⁷⁹	73.30 ⁶⁰	12.626 ²⁷⁰	43.40 ¹⁰³	24.019 ³²⁵	43.14 ⁸
Mai 1	61.969 ²⁹⁹	22.64 ²⁵³	15.281 ²⁶²	72.70 ⁷¹	12.896 ²⁵²	44.43 ¹²⁴	24.344 ³⁰⁷	43.22 ¹²
11	62.268 ²⁵⁴	25.17 ²⁸⁶	15.543 ²⁴⁰	71.99 ⁷⁹	13.148 ²³⁰	45.67 ¹³⁸	24.651 ²⁸²	43.34 ¹⁸
21	62.522 ²⁰³	28.03 ³¹⁰	15.783 ²¹⁴	71.20 ⁸³	13.378 ²⁰³	47.05 ¹⁴⁸	24.933 ²⁵³	43.52 ²⁴
31	62.725 ¹⁴⁸	31.13 ³²³	15.997 ¹⁸³	70.37 ⁸³	13.581 ¹⁷⁴	48.53 ¹⁵²	25.186 ²¹⁸	43.76 ³²
Juni 10	62.873 ⁹¹	34.36 ³²⁸	16.180 ¹⁴⁹	69.54 ⁸¹	13.755 ¹³⁹	50.05 ¹⁵²	25.404 ¹⁸⁰	44.08 ³⁸
20	62.964 ³⁰	37.64 ³²²	16.329 ¹¹¹	68.73 ⁷⁵	13.894 ¹⁰²	51.57 ¹⁴⁷	25.584 ¹³⁶	44.46 ⁴⁴
29	62.994 ³⁰	40.86 ³⁰⁹	16.440 ⁷²	67.98 ⁶⁸	13.996 ⁶³	53.04 ¹³⁸	25.720 ⁹¹	44.90 ⁵⁰
Juli 9	62.964 ⁸⁹	43.95 ²⁸⁷	16.512 ³¹	67.30 ⁶⁰	14.059 ²²	54.42 ¹²⁶	25.811 ⁴⁴	45.40 ⁵²
19	62.875 ¹⁴⁷	46.82 ²⁶⁰	16.543 ¹¹	66.70 ⁵¹	14.081 ¹⁷	55.68 ¹¹¹	25.855 ³	45.92 ⁵³
29	62.728 ¹⁹⁹	49.42 ²²⁶	16.532 ⁵⁰	66.19 ⁴¹	14.064 ⁵⁶	56.79 ⁹⁵	25.852 ⁵⁰	46.45 ⁵¹
Aug. 8	62.529 ²⁴⁵	51.68 ¹⁸⁷	16.482 ⁸⁶	65.78 ³²	14.008 ⁹¹	57.74 ⁷⁸	25.802 ⁹²	46.96 ⁴⁷
18	62.284 ²⁸⁵	53.55 ¹⁴⁴	16.396 ¹¹⁷	65.46 ²⁴	13.917 ¹²¹	58.52 ⁵⁹	25.710 ¹²⁸	47.43 ³⁹
28	61.999 ³¹⁵	54.99 ⁹⁸	16.279 ¹⁴¹	65.22 ¹⁶	13.796 ¹⁴⁵	59.11 ⁴⁰	25.582 ¹⁵⁷	47.82 ²⁹
Sept. 7	61.684 ³³⁴	55.97 ⁴⁹	16.138 ¹⁵⁷	65.06 ⁸	13.651 ¹⁶⁰	59.51 ²¹	25.425 ¹⁷⁷	48.11 ¹⁷
17	61.350 ³⁴²	56.46 ²	15.981 ¹⁶⁴	64.98 ⁰	13.491 ¹⁶⁷	59.72 ¹	25.248 ¹⁸⁵	48.28 ⁴
27	61.008 ³³⁹	56.44 ⁵²	15.817 ¹⁶⁰	64.98 ⁷	13.324 ¹⁶⁴	59.73 ¹⁹	25.063 ¹⁸³	48.32 ¹⁰
Okt. 7	60.669 ³²³	55.92 ¹⁰⁴	15.657 ¹⁴⁷	65.05 ¹⁶	13.160 ¹⁵²	59.54 ⁴⁰	24.880 ¹⁶⁸	48.22 ²³
17	60.346 ²⁹⁵	54.88 ¹⁵³	15.510 ¹²⁴	65.21 ²⁴	13.008 ¹³⁰	59.14 ⁶⁰	24.712 ¹⁴³	47.99 ³⁵
27	60.051 ²⁵⁵	53.35 ²⁰⁰	15.386 ⁹²	65.45 ³⁵	12.878 ⁹⁹	58.54 ⁸¹	24.569 ¹⁰⁸	47.64 ⁴⁴
Nov. 6	59.796 ²⁰⁶	51.35 ²⁴⁵	15.294 ⁵³	65.80 ⁴⁶	12.779 ⁶²	57.73 ¹⁰¹	24.461 ⁶³	47.20 ⁵⁰
16	59.590 ¹⁴⁷	48.90 ²⁸³	15.241 ⁹	66.26 ⁵⁶	12.717 ¹⁹	56.72 ¹¹⁹	24.398 ¹³	46.70 ⁵⁴
26	59.443 ⁸⁴	46.07 ³¹⁵	15.232 ³⁸	66.82 ⁶⁸	12.698 ²⁶	55.53 ¹³⁷	24.385 ³⁹	46.16 ⁵³
Dez. 6	59.359 ¹⁵	42.92 ³³⁸	15.270 ⁸⁵	67.50 ⁷⁸	12.724 ⁷²	54.16 ¹⁵¹	24.424 ⁹⁴	45.63 ⁵⁰
16	59.344 ⁵⁵	39.54 ³⁵¹	15.355 ¹³⁰	68.28 ⁸⁶	12.796 ¹¹⁷	52.65 ¹⁶¹	24.518 ¹⁴⁶	45.13 ⁴⁵
26	59.399 ¹²²	36.03 ³⁵²	15.485 ¹⁷³	69.14 ⁹⁴	12.913 ¹⁵⁸	51.04 ¹⁶⁷	24.664 ¹⁹³	44.68 ³⁸
36	59.521	32.51	15.658	70.08	13.071	49.37	24.857	44.30
Mittl. Ort	60.198	46.69	13.621	59.82	11.321	60.46	22.454	36.15
sec δ , tg δ	1.606	+1.257	1.015	—0.172	1.001	+0.051	1.160	—0.587
a, a'	+1.4	—0.4	+3.3	—0.4	+3.0	—0.2	+3.9	+0.1
b, b'	0.00	+1.00	0.00	+1.00	0.00	+1.00	0.00	+1.00

Tag	680) 72 Ophiuchi		681) 0 Herculis		682) μ Sagittarii		688) η Serpentis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	18 ^h 4 ^m	+9° 32'	18 ^h 4 ^m	+28° 44'	18 ^h 9 ^m	-21° 4'	18 ^h 17 ^m	-2° 55'
Jan. I	3.009 ¹⁶⁹	59.67 ²⁰²	49.244 ¹⁵⁷	55.65 ²⁸⁹	36.366 ¹⁹⁶	51.42 ²³	42.652 ¹⁶⁶	15.03 ¹³¹
II	3.178 ²⁰⁵	57.65 ¹⁹⁵	49.401 ¹⁹⁸	52.76 ²⁷⁶	36.562 ²³³	51.65 ²⁶	42.818 ²⁰²	16.34 ¹²⁹
2I	3.383 ²³⁴	55.70 ¹⁸¹	49.599 ²³⁴	50.00 ²⁵⁵	36.795 ²⁶³	51.91 ²⁷	43.020 ²³⁰	17.63 ¹²⁰
3I	3.617 ²⁵⁸	53.89 ¹⁵⁹	49.833 ²⁶⁴	47.45 ²²³	37.058 ²⁸⁶	52.18 ²⁶	43.250 ²⁵⁴	18.83 ¹⁰⁷
Feb. 10	3.875 ²⁷⁶	52.30 ¹³¹	50.097 ²⁸⁶	45.22 ¹⁸²	37.344 ³⁰⁵	52.44 ²³	43.504 ²⁷³	19.90 ⁸⁸
20	4.151 ²⁸⁹	50.99 ⁹⁷	50.383 ³⁰⁴	43.40 ¹³⁵	37.649 ³¹⁷	52.67 ¹⁶	43.777 ²⁸⁷	20.78 ⁶⁵
März 2	4.440 ²⁹⁷	50.02 ⁵⁹	50.687 ³¹⁴	42.05 ⁸³	37.966 ³²⁵	52.83 ⁸	44.064 ²⁹⁶	21.43 ³⁹
12	4.737 ³⁰¹	49.43 ²⁰	51.001 ³¹⁹	41.22 ²⁹	38.291 ³³⁰	52.91 ¹	44.360 ³⁰¹	21.82 ¹¹
22	5.038 ²⁹⁹	49.23 ²¹	51.320 ³¹⁸	40.93 ²⁶	38.621 ³²⁹	52.90 ¹⁰	44.661 ³⁰²	21.93 ¹⁶
Apr. I	5.337 ²⁹⁴	49.44 ⁵⁸	51.638 ³¹¹	41.19 ⁷⁹	38.950 ³²⁶	52.80 ¹⁹	44.963 ³⁰⁰	21.77 ⁴³
II	5.631 ²⁸⁵	50.02 ⁹⁴	51.949 ³⁰⁰	41.98 ¹²⁷	39.276 ³¹⁷	52.61 ²⁶	45.263 ²⁹³	21.34 ⁶⁸
2I	5.916 ²⁷¹	50.96 ¹²⁴	52.249 ²⁸³	43.25 ¹⁷¹	39.593 ³⁰⁶	52.35 ³⁰	45.556 ²⁸³	20.66 ⁸⁹
Mai I	6.187 ²⁵⁴	52.20 ¹⁴⁸	52.532 ²⁶⁰	44.96 ²⁰⁶	39.899 ²⁸⁹	52.05 ³³	45.839 ²⁶⁸	19.77 ¹⁰⁵
II	6.441 ²³²	53.68 ¹⁶⁸	52.792 ²³³	47.02 ²³⁵	40.188 ²⁶⁸	51.72 ³²	46.107 ²⁴⁸	18.72 ¹¹⁷
2I	6.673 ²⁰⁵	55.36 ¹⁸¹	53.025 ²⁰¹	49.37 ²⁵⁵	40.456 ²⁴¹	51.40 ³¹	46.355 ²²⁴	17.55 ¹²⁴
3I	6.878 ¹⁷⁴	57.17 ¹⁸⁷	53.226 ¹⁶⁵	51.92 ²⁶⁷	40.697 ²¹¹	51.09 ²⁶	46.579 ¹⁹⁵	16.31 ¹²⁷
Juni 10	7.052 ¹⁴⁰	59.04 ¹⁸⁸	53.391 ¹²⁵	54.59 ²⁷⁰	40.908 ¹⁷⁵	50.83 ²¹	46.774 ¹⁶¹	15.04 ¹²⁵
20	7.192 ¹⁰²	60.92 ¹⁸⁴	53.516 ⁸³	57.29 ²⁶⁷	41.083 ¹³⁵	50.62 ¹⁴	46.935 ¹²⁵	13.79 ¹²⁰
29	7.294 ⁶²	62.76 ¹⁷³	53.599 ³⁹	59.96 ²⁵⁶	41.218 ⁹³	50.48 ⁷	47.060 ⁸⁵	12.59 ¹¹²
Juli 9	7.356 ²²	64.49 ¹⁶⁰	53.638 ⁶	62.52 ²³⁹	41.311 ⁴⁹	50.41 ¹	47.145 ⁴⁴	11.47 ¹⁰⁰
19	7.378 ¹⁹	66.09 ¹⁴⁴	53.632 ⁵⁰	64.91 ²¹⁶	41.360 ⁵	50.40 ⁵	47.189 ³	10.47 ⁸⁸
29	7.359 ⁵⁸	67.53 ¹²⁴	53.582 ⁹²	67.07 ¹⁸⁹	41.365 ³⁹	50.45 ⁹	47.192 ³⁸	9.59 ⁷⁴
Aug. 8	7.301 ⁹³	68.77 ¹⁰³	53.490 ¹²⁹	68.96 ¹⁵⁸	41.326 ⁷⁸	50.54 ¹¹	47.154 ⁷⁶	8.85 ⁵⁹
18	7.208 ¹²⁵	69.80 ⁷⁹	53.361 ¹⁶²	70.54 ¹²⁴	41.248 ¹¹⁴	50.65 ¹²	47.078 ¹⁰⁸	8.26 ⁴⁵
28	7.083 ¹⁴⁹	70.59 ⁵⁵	53.199 ¹⁸⁸	71.78 ⁸⁷	41.134 ¹⁴¹	50.77 ¹¹	46.970 ¹³⁵	7.81 ³⁰
Sept. 7	6.934 ¹⁶⁶	71.14 ³⁰	53.011 ²⁰⁵	72.65 ⁴⁹	40.993 ¹⁶¹	50.88 ⁸	46.835 ¹⁵⁴	7.51 ¹⁶
17	6.768 ¹⁷³	71.44 ⁵	52.806 ²¹⁴	73.14 ⁹	40.832 ¹⁷⁰	50.96 ⁵	46.681 ¹⁶⁴	7.35 ¹
27	6.595 ¹⁷²	71.49 ²²	52.592 ²¹²	73.23 ³²	40.662 ¹⁷⁰	51.01 ¹	46.517 ¹⁶⁵	7.34 ¹³
Okt. 7	6.423 ¹⁶¹	71.27 ⁴⁸	52.380 ²⁰¹	72.91 ⁷³	40.492 ¹⁵⁷	51.02 ³	46.352 ¹⁵⁵	7.47 ²⁸
17	6.262 ¹³⁹	70.79 ⁷⁴	52.179 ¹⁷⁹	72.18 ¹¹³	40.335 ¹³⁵	50.99 ⁶	46.197 ¹³⁵	7.75 ⁴³
27	6.123 ¹¹⁰	70.05 ¹⁰⁰	52.000 ¹⁴⁹	71.05 ¹⁵²	40.200 ¹⁰⁴	50.93 ⁷	46.062 ¹⁰⁸	8.18 ⁵⁸
Nov. 6	6.013 ⁷⁴	69.05 ¹²⁴	51.851 ¹¹¹	69.53 ¹⁸⁸	40.096 ⁶⁴	50.86 ⁷	45.954 ⁷³	8.76 ⁷³
16	5.939 ³²	67.81 ¹⁴⁷	51.740 ⁶⁶	67.65 ²²¹	40.032 ¹⁸	50.79 ⁵	45.881 ³²	9.49 ⁸⁷
26	5.907 ¹²	66.34 ¹⁶⁸	51.674 ¹⁹	65.44 ²⁴⁹	40.014 ²⁹	50.74 ⁰	45.849 ¹²	10.36 ¹⁰¹
Dez. 6	5.919 ⁵⁹	64.66 ¹⁸⁴	51.655 ³²	62.95 ²⁷¹	40.043 ⁷⁹	50.74 ⁵	45.861 ⁵⁷	11.37 ¹¹⁴
16	5.978 ¹⁰⁴	62.82 ¹⁹⁵	51.687 ⁸¹	60.24 ²⁸³	40.122 ¹²⁸	50.79 ¹¹	45.918 ¹⁰¹	12.51 ¹²²
26	6.082 ¹⁴⁶	60.87 ¹⁹⁹	51.768 ¹³⁰	57.41 ²⁸⁸	40.250 ¹⁷¹	50.90 ¹⁷	46.019 ¹⁴³	13.73 ¹²⁷
36	6.228	58.88	51.898	54.53	40.421	51.07	46.162	15.00
Mittl. Ort	4.670	69.68	51.029	66.40	38.175	42.81	44.332	5.48
sec δ , tg δ	1.014	+0.168	1.141	+0.549	1.072	-0.385	1.001	-0.051
a, a'	+2.8	+0.4	+2.3	+0.4	+3.6	+0.8	+3.1	+1.6
b, b'	0.00	+1.00	0.00	+1.00	0.00	+1.00	0.00	+1.00

Tag	689) ϵ Sagittarii		690) ι Herculis		691) α Telescopii		695) γ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	18 ^h 19 ^m	—34° 25'	18 ^h 20 ^m	+21° 43'	18 ^h 21 ^m	—46° 0'	18 ^h 22 ^m	+72° 41'
Jan. I	33.494 ²⁰⁸	16.69 ⁶⁴	43.688 ¹⁴⁵	63.06 ²⁵⁸	49.081 ²³³	37.86 ¹³⁵	13.53 ¹⁰	62.10 ³⁶²
II	33.702 ²⁵⁰	16.05 ⁵⁷	43.833 ¹⁸⁴	60.48 ²⁴⁹	49.314 ²⁸⁴	36.51 ¹²⁴	13.63 ²³	58.48 ³⁵⁰
21	33.952 ²⁸⁵	15.48 ⁵⁰	44.017 ²¹⁸	57.99 ²³¹	49.598 ³²⁷	35.27 ¹¹¹	13.86 ³⁷	54.98 ³²⁷
31	34.237 ³¹⁴	14.98 ⁴³	44.235 ²⁴⁷	55.68 ²⁰⁴	49.925 ³⁶²	34.16 ⁹⁸	14.23 ⁴⁹	51.71 ²⁹¹
Feb. 10	34.551 ³³⁶	14.55 ³⁶	44.482 ²⁶⁹	53.64 ¹⁷⁰	50.287 ³⁹⁰	33.18 ⁸²	14.72 ⁵⁹	48.80 ²⁴⁴
20	34.887 ³⁵²	14.19 ³¹	44.751 ²⁸⁷	51.94 ¹²⁸	50.677 ⁴¹¹	32.36 ⁶⁶	15.31 ⁶⁶	46.36 ¹⁸⁸
März 2	35.239 ³⁶³	13.88 ²⁵	45.038 ³⁰⁰	50.66 ⁸¹	51.088 ⁴²⁴	31.70 ⁵⁰	15.97 ⁷³	44.48 ¹²⁷
12	35.602 ³⁷⁰	13.63 ²¹	45.338 ³⁰⁶	49.85 ³³	51.512 ⁴³²	31.20 ³³	16.70 ⁷⁶	43.21 ⁶¹
22	35.972 ³⁷¹	13.42 ¹⁵	45.644 ³⁰⁸	49.52 ¹⁸	51.944 ⁴³⁵	30.87 ¹⁶	17.46 ⁷⁷	42.60 ⁷
Apr. I	36.343 ³⁶⁸	13.27 ¹⁰	45.952 ³⁰⁶	49.70 ⁶⁶	52.379 ⁴³¹	30.71 ⁰	18.23 ⁷⁵	42.67 ⁷²
II	36.711 ³⁶¹	13.17 ³	46.258 ²⁹⁷	50.36 ¹¹⁰	52.810 ⁴²³	30.71 ¹⁸	18.98 ⁷¹	43.39 ¹³⁴
21	37.072 ³⁴⁹	13.14 ⁴	46.555 ²⁸⁵	51.46 ¹⁵¹	53.233 ⁴⁰⁸	30.89 ³⁶	19.69 ⁶⁴	44.73 ¹⁹⁰
Mai I	37.421 ³³²	13.18 ¹²	46.840 ²⁶⁷	52.97 ¹⁸⁴	53.641 ³⁸⁷	31.25 ⁵³	20.33 ⁵⁷	46.63 ²³⁸
11	37.753 ³⁰⁹	13.30 ²²	47.107 ²⁴³	54.81 ²¹¹	54.028 ³⁵⁹	31.78 ⁷¹	20.90 ⁴⁷	49.01 ²⁷⁸
21	38.062 ²⁸⁰	13.52 ³²	47.350 ²¹⁶	56.92 ²³¹	54.387 ³²⁵	32.49 ⁸⁸	21.37 ³⁶	51.79 ³⁰⁸
31	38.342 ²⁴⁵	13.84 ⁴³	47.566 ¹⁸³	59.23 ²⁴²	54.712 ²⁸³	33.37 ¹⁰²	21.73 ²⁴	54.87 ³²⁹
Juni 10	38.587 ²⁰⁵	14.27 ⁵³	47.749 ¹⁴⁷	61.65 ²⁴⁶	54.995 ²³⁷	34.39 ¹¹⁶	21.97 ¹²	58.16 ³³⁹
20	38.792 ¹⁶²	14.80 ⁶¹	47.896 ¹⁰⁷	64.11 ²⁴⁴	55.232 ¹⁸⁴	35.55 ¹²⁶	22.09 ¹	61.55 ³⁴¹
29	38.954 ¹¹³	15.41 ⁶⁹	48.003 ⁶⁴	66.55 ²³⁵	55.416 ¹²⁷	36.81 ¹³³	22.08 ¹³	64.96 ³³²
Juli 9	39.067 ⁶⁴	16.10 ⁷³	48.067 ²¹	68.90 ²²⁰	55.543 ⁶⁸	38.14 ¹³⁵	21.95 ²⁶	68.28 ³¹⁷
19	39.131 ¹³	16.83 ⁷⁵	48.088 ²²	71.10 ²⁰⁰	55.611 ⁹	39.49 ¹³⁴	21.69 ³⁷	71.45 ²⁹⁴
29	39.144 ³⁷	17.58 ⁷⁴	48.066 ⁶³	73.10 ¹⁷⁷	55.620 ⁵⁰	40.83 ¹²⁷	21.32 ⁴⁸	74.39 ²⁶³
Aug. 8	39.107 ⁸³	18.32 ⁶⁸	48.003 ¹⁰²	74.87 ¹⁵⁰	55.570 ¹⁰⁴	42.10 ¹¹⁴	20.84 ⁵⁸	77.02 ²²⁷
18	39.024 ¹²⁴	19.00 ⁵⁹	47.901 ¹³⁵	76.37 ¹²⁰	55.466 ¹⁵²	43.24 ⁹⁸	20.26 ⁶⁶	79.29 ¹⁸⁶
28	38.900 ¹⁵⁷	19.59 ⁴⁸	47.766 ¹⁶³	77.57 ⁸⁷	55.314 ¹⁹¹	44.22 ⁷⁷	19.60 ⁷²	81.15 ¹⁴¹
Sept. 7	38.743 ¹⁸⁰	20.07 ³³	47.603 ¹⁸²	78.44 ⁵³	55.123 ²¹⁹	44.99 ⁵²	18.88 ⁷⁷	82.56 ⁹²
17	38.563 ¹⁹³	20.40 ¹⁷	47.421 ¹⁹³	78.97 ¹⁹	54.904 ²³⁶	45.51 ²⁴	18.11 ⁸⁰	83.48 ⁴¹
27	38.370 ¹⁹⁵	20.57 ²	47.228 ¹⁹⁴	79.16 ¹⁷	54.668 ²³⁷	45.75 ⁵	17.31 ⁸¹	83.89 ¹²
Okt. 7	38.175 ¹⁸³	20.55 ¹⁹	47.034 ¹⁸⁵	78.99 ⁵⁴	54.431 ²²⁵	45.70 ³⁴	16.50 ⁷⁹	83.77 ⁶⁵
17	37.992 ¹⁶⁰	20.36 ³⁶	46.849 ¹⁶⁷	78.45 ⁸⁹	54.206 ¹⁹⁹	45.36 ⁶³	15.71 ⁷⁵	83.12 ¹¹⁸
27	37.832 ¹²⁶	20.00 ⁵¹	46.682 ¹⁴⁰	77.56 ¹²⁴	54.007 ¹⁶⁰	44.73 ⁸⁸	14.96 ⁷⁰	81.94 ¹⁶⁹
Nov. 6	37.706 ⁸³	19.49 ⁶²	46.542 ¹⁰⁴	76.32 ¹⁵⁷	53.847 ¹¹⁰	43.85 ¹¹⁰	14.26 ⁶¹	80.25 ²¹⁹
16	37.623 ³⁴	18.87 ⁷¹	46.438 ⁶⁴	74.75 ¹⁸⁸	53.737 ⁵²	42.75 ¹²⁷	13.65 ⁵²	78.06 ²⁶²
26	37.589 ²¹	18.16 ⁷⁶	46.374 ¹⁹	72.87 ²¹⁴	53.685 ¹⁰	41.48 ¹³⁹	13.13 ⁴⁰	75.44 ³⁰¹
Dez. 6	37.610 ⁷⁵	17.40 ⁷⁷	46.355 ²⁷	70.73 ²³⁵	53.695 ⁷⁵	40.09 ¹⁴⁴	12.73 ²⁸	72.43 ³³⁰
16	37.685 ¹²⁹	16.63 ⁷⁶	46.382 ⁷⁴	68.38 ²⁴⁹	53.770 ¹³⁹	38.65 ¹⁴⁶	12.45 ¹³	69.13 ³⁵⁰
26	37.814 ¹⁸⁰	15.87 ⁷⁰	46.456 ¹¹⁹	65.89 ²⁵⁵	53.909 ¹⁹⁹	37.19 ¹⁴²	12.32 ¹	65.63 ³⁶⁰
36	37.994	15.17	46.575	63.34	54.108	35.77	12.33	62.03
Mittl. Ort	35.518	8.17	45.432	73.16	51.442	29.61	18.14	72.03
sec δ , tg δ	1.212	—0.685	1.077	+0.399	1.440	—1.036	3.363	+3.211
a, a'	+4.0	+1.7	+2.5	+1.8	+4.5	+1.9	—1.2	+1.9
b, b'	0.00	+1.00	0.00	+1.00	—0.01	+1.00	+0.02	+1.00

Tag	694) <i>b</i> Draconis		699) α Lyrae		698) ζ Pavonis		703) Π Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	18 ^h 22 ^m	+58° 45'	18 ^h 34 ^m	+38° 42'	18 ^h 34 ^m	−71° 29'	18 ^h 42 ^m	+20° 28'
Jan. 1	51.393 ¹¹²	26.79 ³⁵⁸	34.104 ¹¹⁶	56.80 ³¹⁶	54.09 ³⁷	33.94 ²⁷⁰	39.739 ¹²³	34.96 ²⁴⁶
11	51.505 ¹⁹¹	23.21 ³⁴⁶	34.220 ¹⁶⁵	53.64 ³⁰⁸	54.46 ⁴⁹	31.24 ²⁵⁵	39.862 ¹⁶²	32.50 ²⁴⁰
21	51.696 ²⁶¹	19.75 ³²³	34.385 ²⁰⁹	50.56 ²⁸⁸	54.95 ⁵⁹	28.69 ²³⁵	40.024 ¹⁹⁸	30.10 ²²⁶
31	51.957 ³²⁴	16.52 ²⁸⁷	34.594 ²⁴⁸	47.68 ²⁵⁸	55.54 ⁶⁸	26.34 ²⁰⁹	40.222 ²²⁷	27.84 ²⁰¹
Feb. 10	52.281 ³⁷⁸	13.65 ²⁴⁰	34.842 ²⁸¹	45.10 ²¹⁷	56.22 ⁷⁵	24.25 ¹⁷⁹	40.449 ²⁵³	25.83 ¹⁷⁰
20	52.659 ⁴²⁰	11.25 ¹⁸⁴	35.123 ³⁰⁷	42.93 ¹⁶⁸	56.97 ⁸²	22.46 ¹⁴⁵	40.702 ²⁷³	24.13 ¹³¹
März 2	53.079 ⁴⁴⁹	9.41 ¹²³	35.430 ³²⁷	41.25 ¹¹³	57.79 ⁸⁵	21.01 ¹⁰⁹	40.975 ²⁸⁹	22.82 ⁸⁶
12	53.528 ⁴⁶⁷	8.18 ⁵⁷	35.757 ³³⁹	40.12 ⁵⁴	58.64 ⁸⁸	19.92 ⁷¹	41.264 ²⁹⁹	21.96 ³⁹
22	53.995 ⁴⁷²	7.61 ¹¹	36.096 ³⁴⁴	39.58 ⁷	59.52 ⁸⁹	19.21 ³³	41.563 ³⁰⁶	21.57 ¹⁰
Apr. 1	54.467 ⁴⁶³	7.72 ⁷⁶	36.440 ³⁴⁴	39.65 ⁶⁵	60.41 ⁸⁸	18.88 ⁶	41.869 ³⁰⁷	21.67 ⁵⁷
11	54.930 ⁴⁴⁴	8.48 ¹³⁷	36.784 ³³⁵	40.30 ¹²¹	61.29 ⁸⁷	18.94 ⁴⁴	42.176 ³⁰²	22.24 ¹⁰³
21	55.374 ⁴¹¹	9.85 ¹⁹²	37.119 ³¹⁹	41.51 ¹⁷²	62.16 ⁸³	19.38 ⁸¹	42.478 ²⁹⁴	23.27 ¹⁴³
Mai 1	55.785 ³⁷⁰	11.77 ²⁴¹	37.438 ²⁹⁸	43.23 ²¹⁶	62.99 ⁷⁹	20.19 ¹¹⁷	42.772 ²⁷⁹	24.70 ¹⁷⁷
11	56.155 ³²⁰	14.18 ²⁷⁹	37.736 ²⁷⁰	45.39 ²⁵¹	63.78 ⁷²	21.36 ¹⁵¹	43.051 ²⁵⁹	26.47 ²⁰⁵
21	56.475 ²⁶¹	16.97 ³¹⁰	38.006 ²³⁵	47.90 ²⁷⁹	64.50 ⁶⁵	22.87 ¹⁸¹	43.310 ²³³	28.52 ²²⁶
31	56.736 ¹⁹⁶	20.07 ³³⁰	38.241 ¹⁹⁶	50.69 ²⁹⁷	65.15 ⁵⁵	24.68 ²⁰⁷	43.543 ²⁰³	30.78 ²³⁹
Juni 10	56.932 ¹²⁶	23.37 ³⁴⁰	38.437 ¹⁵²	53.66 ³⁰⁸	65.70 ⁴⁵	26.75 ²²⁷	43.746 ¹⁶⁸	33.17 ²⁴⁵
20	57.058 ⁵⁴	26.77 ³⁴¹	38.589 ¹⁰⁴	56.74 ³⁰⁸	66.15 ³⁴	29.02 ²⁴³	43.914 ¹²⁹	35.62 ²⁴⁵
29*)	57.112 ¹⁹	30.18 ³³²	38.693 ⁵⁴	59.82 ³⁰²	66.49 ²¹	31.45 ²⁵¹	44.043 ⁸⁷	38.07 ²³⁷
Juli 9	57.093 ⁹²	33.50 ³¹⁶	38.747 ⁴	62.84 ²⁸⁷	66.70 ⁹	33.96 ²⁵³	44.130 ⁴³	40.44 ²²⁵
19	57.001 ¹⁶²	36.66 ²⁹²	38.751 ⁴⁶	65.71 ²⁶⁶	66.79 ³	36.49 ²⁴⁶	44.173 ¹	42.69 ²⁰⁷
29	56.839 ²²⁸	39.58 ²⁶²	38.705 ⁹⁵	68.37 ²⁴⁰	66.76 ¹⁶	38.95 ²³¹	44.172 ⁴⁴	44.76 ¹⁸⁴
Aug. 8	56.611 ²⁸⁷	42.20 ²²⁶	38.610 ¹³⁹	70.77 ²⁰⁷	66.60 ²⁸	41.26 ²⁰⁹	44.128 ⁸⁴	46.60 ¹⁵⁹
18	56.324 ³³⁸	44.46 ¹⁸⁴	38.471 ¹⁷⁹	72.84 ¹⁷²	66.32 ³⁸	43.35 ¹⁷⁹	44.044 ¹²⁰	48.19 ¹³⁰
28	55.986 ³⁷⁹	46.30 ¹⁴⁰	38.292 ²¹⁰	74.56 ¹³¹	65.94 ⁴⁶	45.14 ¹⁴²	43.924 ¹⁵⁰	49.49 ¹⁰⁰
Sept. 7	55.607 ⁴⁰⁸	47.70 ⁹⁰	38.082 ²³⁵	75.87 ⁹⁰	65.48 ⁵²	46.56 ⁹⁸	43.774 ¹⁷³	50.49 ⁶⁷
17	55.199 ⁴²⁶	48.60 ⁴⁰	37.847 ²⁴⁹	76.77 ⁴⁵	64.96 ⁵⁷	47.54 ⁵¹	43.601 ¹⁸⁷	51.16 ³³
27	54.773 ⁴²⁹	49.00 ¹²	37.598 ²⁵⁴	77.22 ¹	64.39 ⁵⁸	48.05 ¹	43.414 ¹⁹¹	51.49 ²
(Okt. 7	54.344 ⁴¹⁹	48.88 ⁶⁶	37.344 ²⁴⁶	77.21 ⁴⁸	63.81 ⁵⁷	48.06 ⁵¹	43.223 ¹⁸⁶	51.47 ³⁷
17	53.925 ³⁹⁴	48.22 ¹¹⁹	37.098 ²³⁰	76.73 ⁹⁵	63.24 ⁵²	47.55 ¹⁰¹	43.037 ¹⁷¹	51.10 ⁷¹
27	53.531 ³⁵⁷	47.03 ¹⁶⁹	36.868 ²⁰³	75.78 ¹³⁹	62.72 ⁴⁵	46.54 ¹⁴⁸	42.866 ¹⁴⁸	50.39 ¹⁰⁶
Nov. 6	53.174 ³⁰⁶	45.34 ²¹⁸	36.665 ¹⁶⁷	74.39 ¹⁸³	62.27 ³⁶	45.06 ¹⁸⁹	42.718 ¹¹⁶	49.33 ¹⁴⁰
16	52.868 ²⁴⁵	43.16 ²⁶²	36.498 ¹²³	72.56 ²²³	61.91 ²⁴	43.17 ²²⁴	42.602 ⁷⁹	47.93 ¹⁶⁹
26	52.623 ¹⁷⁵	40.54 ²⁹⁹	36.375 ⁷⁵	70.33 ²⁵⁷	61.67 ¹¹	40.93 ²⁵¹	42.523 ³⁶	46.24 ¹⁹⁶
Dez. 6	52.448 ⁹⁸	37.55 ³²⁸	36.300 ²³	67.76 ²⁸⁵	61.56 ²	38.42 ²⁶⁸	42.487 ⁸	44.28 ²¹⁹
16	52.350 ¹⁸	34.27 ³⁴⁸	36.277 ³¹	64.91 ³⁰⁴	61.58 ¹⁵	35.74 ²⁷⁷	42.495 ⁵⁴	42.09 ²³⁴
26	52.332 ⁶³	30.79 ³⁵⁶	36.308 ⁸⁵	61.87 ³¹²	61.73 ²⁹	32.97 ²⁷⁷	42.549 ⁹⁷	39.75 ²⁴³
36	52.395	27.23	36.393	58.75	62.02	30.20	42.646	37.32
Mittl. Ort sec δ , tg δ	54.192 1.928	36.87 +1.649	36.121 1.282	66.36 +0.802	58.86 3.150	25.37 −2.987	41.495 1.067	44.46 +0.374
<i>a</i> , <i>a'</i>	+0.9	+2.0	+2.0	+3.0	+7.0	+3.0	+2.6	+3.7
<i>b</i> , <i>b'</i>	+0.01	+0.99	+0.01	+0.99	−0.03	+0.99	0.00	+0.98

*) Bei Stern 699), 698) und 703) lies Juni 30

Tag	704) λ Pavonis		705) β Lyrae		707) α Draconis		706) σ Sagittarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	18 ^h 45 ^m	—62° 16'	18 ^h 47 ^m	+33° 16'	18 ^h 50 ^m	+59° 17'	18 ^h 50 ^m	—26° 23'
Jan. I	46.38 ²⁶	18.19 ²³³	30.002 ¹⁰⁶	44.66 ²⁹⁶	8.123 ⁶¹	64.75 ³⁵⁴	57.398 ¹⁶⁰	13.09 ²⁹
II	46.64 ³⁴	15.86 ²²⁴	30.108 ¹⁵¹	41.70 ²⁹⁰	8.184 ¹⁴¹	61.21 ³⁵⁰	57.558 ²⁰⁰	12.80 ²⁷
21	46.98 ⁴¹	13.62 ²¹⁰	30.259 ¹⁹²	38.80 ²⁷⁴	8.325 ²¹⁶	57.71 ³³¹	57.758 ²³⁴	12.53 ²⁷
31	47.39 ⁴⁷	11.52 ¹⁸⁹	30.451 ²²⁹	36.06 ²⁴⁶	8.541 ²⁸⁵	54.40 ³⁰²	57.992 ²⁶⁴	12.26 ²⁷
Feb. 10	47.86 ⁵²	9.63 ¹⁶⁷	30.680 ²⁵⁹	33.60 ²¹⁰	8.826 ³⁴⁵	51.38 ²⁶¹	58.256 ²⁸⁹	11.99 ²⁹
20	48.38 ⁵⁷	7.96 ¹⁴⁰	30.939 ²⁸⁶	31.50 ¹⁶⁴	9.171 ³⁹⁶	48.77 ²⁰⁹	58.545 ³⁰⁸	11.70 ³²
März 2	48.95 ⁵⁹	6.56 ¹¹²	31.225 ³⁰⁶	29.86 ¹¹³	9.567 ⁴³⁴	46.68 ¹⁵¹	58.853 ³²²	11.38 ³⁷
12	49.54 ⁶¹	5.44 ⁸²	31.531 ³¹⁹	28.73 ⁵⁸	10.001 ⁴⁶²	45.17 ⁸⁷	59.175 ³³³	11.01 ⁴⁰
22	50.15 ⁶²	4.62 ⁵⁰	31.850 ³²⁷	28.15 ⁰	10.463 ⁴⁷⁵	44.30 ²⁰	59.508 ³⁴¹	10.61 ⁴⁴
Apr. I	50.77 ⁶²	4.12 ¹⁹	32.177 ³²⁹	28.15 ⁵⁶	10.938 ⁴⁷⁷	44.10 ⁴⁵	59.849 ³⁴⁴	10.17 ⁴⁶
II	51.39 ⁶²	3.93 ¹³	32.506 ³²⁴	28.71 ¹⁰⁹	11.415 ⁴⁶⁵	44.55 ¹⁰⁹	60.193 ³⁴²	9.71 ⁴⁸
21	52.01 ⁶⁰	4.06 ⁴⁶	32.830 ³¹³	29.80 ¹⁵⁹	11.880 ⁴⁴¹	45.64 ¹⁶⁷	60.535 ³³⁶	9.23 ⁴⁷
Mai I	52.61 ⁵⁷	4.52 ⁷⁷	33.143 ²⁹⁵	31.39 ²⁰⁰	12.321 ⁴⁰⁶	47.31 ²¹⁹	60.871 ³²⁵	8.76 ⁴³
11	53.18 ⁵³	5.29 ¹⁰⁸	33.438 ²⁷²	33.39 ²³⁶	12.727 ³⁶⁰	49.50 ²⁶³	61.196 ³⁰⁸	8.33 ³⁷
21	53.71 ⁴⁸	6.37 ¹³⁴	33.710 ²⁴³	35.75 ²⁶³	13.087 ³⁰⁶	52.13 ²⁹⁸	61.504 ²⁸⁵	7.96 ³⁰
31	54.19 ⁴³	7.71 ¹⁵⁹	33.953 ²⁰⁷	38.38 ²⁸²	13.393 ²⁴³	55.11 ³²⁴	61.789 ²⁵⁶	7.66 ²⁰
Juni 10	54.62 ³⁶	9.30 ¹⁸¹	34.160 ¹⁶⁸	41.20 ²⁹²	13.636 ¹⁷⁵	58.35 ³⁴⁰	62.045 ²²²	7.46 ¹⁰
20	54.98 ²⁷	11.11 ¹⁹⁸	34.328 ¹²³	44.12 ²⁹⁴	13.811 ¹⁰²	61.75 ³⁴⁶	62.267 ¹⁸²	7.36 ²
30	55.25 ²⁰	13.09 ²⁰⁸	34.451 ⁷⁷	47.06 ²⁸⁹	13.913 ²⁷	65.21 ³⁴⁴	62.449 ¹³⁸	7.38 ¹³
Juli 9	55.45 ¹¹	15.17 ²¹⁴	34.528 ²⁹	49.95 ²⁷⁶	13.940 ⁴⁸	68.65 ³³³	62.587 ⁹²	7.51 ²³
19	55.56 ²	17.31 ²¹²	34.557 ²⁰	52.71 ²⁵⁸	13.892 ¹²²	71.98 ³¹⁵	62.679 ⁴³	7.74 ³¹
29	55.58 ⁶	19.43 ²⁰⁴	34.537 ⁶⁶	55.29 ²³³	13.770 ¹⁹²	75.13 ²⁸⁸	62.722 ⁴	8.05 ³⁷
Aug. 8	55.52 ¹⁵	21.47 ¹⁸⁷	34.471 ¹¹⁰	57.62 ²⁰⁴	13.578 ²⁵⁷	78.01 ²⁵⁶	62.718 ⁵⁰	8.42 ⁴¹
18	55.37 ²²	23.34 ¹⁶⁴	34.361 ¹⁴⁹	59.66 ¹⁷⁰	13.321 ³¹⁴	80.57 ²¹⁹	62.668 ⁹¹	8.83 ⁴¹
28	55.15 ²⁸	24.98 ¹³⁴	34.212 ¹⁸²	61.36 ¹³³	13.007 ³⁶¹	82.76 ¹⁷⁶	62.577 ¹²⁶	9.24 ³⁹
Sept. 7	54.87 ³³	26.32 ⁹⁸	34.030 ²⁰⁷	62.69 ⁹⁴	12.646 ³⁹⁹	84.52 ¹³⁰	62.451 ¹⁵³	9.63 ³⁴
17	54.54 ³⁶	27.30 ⁵⁹	33.823 ²²³	63.63 ⁵³	12.247 ⁴²³	85.82 ⁸⁰	62.298 ¹⁷¹	9.97 ²⁶
27	54.18 ³⁸	27.89 ¹⁶	33.600 ²²⁹	64.16 ¹⁰	11.824 ⁴³⁴	86.62 ²⁸	62.127 ¹⁷⁷	10.23 ¹⁸
Okt. 7	53.80 ³⁷	28.05 ²⁹	33.371 ²²⁴	64.26 ³⁴	11.390 ⁴³²	86.90 ²⁵	61.950 ¹⁷³	10.41 ⁸
17	53.43 ³⁵	27.76 ⁷³	33.147 ²¹⁰	63.92 ⁷⁸	10.958 ⁴¹⁵	86.65 ⁷⁹	61.777 ¹⁵⁸	10.49 ³
27	53.08 ³⁰	27.03 ¹¹⁵	32.937 ¹⁸⁷	63.14 ¹²¹	10.543 ³⁸⁴	85.86 ¹³²	61.619 ¹³¹	10.46 ¹²
Nov. 6	52.78 ²⁴	25.88 ¹⁵²	32.750 ¹⁵⁴	61.93 ¹⁶²	10.159 ³⁴⁰	84.54 ¹⁸⁴	61.488 ⁹⁶	10.34 ²⁰
16	52.54 ¹⁵	24.36 ¹⁸⁵	32.596 ¹¹⁵	60.31 ²⁰⁰	9.819 ²⁸⁵	82.70 ²³¹	61.392 ⁵⁵	10.14 ²⁶
26	52.39 ⁷	22.51 ²⁰⁹	32.481 ⁷⁰	58.31 ²³³	9.534 ²²⁰	80.39 ²⁷²	61.337 ⁹	9.88 ³⁰
Dez. 6	52.32 ²	20.42 ²²⁷	32.411 ²²	55.98 ²⁶¹	9.314 ¹⁴⁷	77.67 ³⁰⁸	61.328 ³⁹	9.58 ³²
16	52.34 ¹¹	18.15 ²³⁶	32.389 ²⁷	53.37 ²⁸¹	9.167 ⁷⁰	74.59 ³³³	61.367 ⁸⁸	9.26 ³²
26	52.45 ²¹	15.79 ²³⁸	32.416 ⁷⁷	50.56 ²⁹²	9.097 ¹²	71.26 ³⁴⁷	61.455 ¹³⁴	8.94 ³²
36	52.66	13.41	32.493	47.64	9.109	67.79	61.589	8.62
Mittl. Ort	49.68	8.52	31.930	53.69	11.074	72.82	59.238	2.93
sec δ , tg δ	2.149	—1.902	1.196	+0.656	1.959	+1.684	1.116	—0.496
a, a'	+5.6	+4.0	+2.2	+4.1	+0.9	+4.4	+3.7	+4.4
b, b'	—0.03	+0.98	+0.01	+0.98	+0.02	+0.98	—0.01	+0.98

Tag	709) θ Serpentis pr.		708) λ Telescopii		711) R Lyrae		713) γ Lyrae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	18 ^h 52 ^m	+4° 6'	18 ^h 52 ^m	—53° 1'	18 ^h 53 ^m	+43° 50'	18 ^h 56 ^m	+32° 35'
Jan. 1	45.676 ¹²⁸	34.92 ¹⁵⁷	54.155 ²⁰⁸	60.56 ¹⁸⁹	11.963 ⁸⁶	66.94 ³²⁶	19.790 ⁹⁷	29.18 ²⁹¹
II	45.804 ¹⁶⁴	33.35 ¹⁵⁴	54.363 ²⁷⁰	58.67 ¹⁸³	12.049 ¹⁴⁰	63.68 ³²²	19.887 ¹⁴¹	26.27 ²⁸⁶
21	45.968 ¹⁹⁵	31.81 ¹⁴⁵	54.633 ³²⁴	56.84 ¹⁷³	12.189 ¹⁸⁹	60.46 ³⁰⁵	20.028 ¹⁸²	23.41 ²⁷²
31	46.163 ²²³	30.36 ¹²⁸	54.957 ³⁷⁰	55.11 ¹⁵⁹	12.378 ²³⁵	57.41 ²⁷⁷	20.210 ²²⁰	20.69 ²⁴⁶
Feb. 10	46.386 ²⁴⁶	29.08 ¹⁰⁵	55.327 ⁴⁰⁹	53.52 ¹⁴³	12.613 ²⁷⁵	54.64 ²³⁷	20.430 ²⁵¹	18.23 ²¹⁰
20	46.632 ²⁶⁵	28.03 ⁷⁸	55.736 ⁴⁴⁰	52.09 ¹²⁴	12.888 ³⁰⁸	52.27 ¹⁹⁰	20.681 ²⁷⁸	16.13 ¹⁶⁷
März 2	46.897 ²⁸⁰	27.25 ⁴⁷	56.176 ⁴⁶³	50.85 ¹⁰⁴	13.196 ³³³	50.37 ¹³⁵	20.959 ²⁹⁹	14.46 ¹¹⁶
12	47.177 ²⁹¹	26.78 ¹³	56.639 ⁴⁸⁰	49.81 ⁸²	13.529 ³⁵¹	49.02 ⁷⁵	21.258 ³¹⁵	13.30 ⁶²
22	47.468 ²⁹⁸	26.65 ²²	57.119 ⁴⁹¹	48.99 ⁵⁹	13.880 ³⁶²	48.27 ¹²	21.573 ³²⁴	12.68 ⁶
Apr. 1	47.766 ³⁰¹	26.87 ⁵⁵	57.610 ⁴⁹⁴	48.40 ³⁶	14.242 ³⁶⁵	48.15 ⁴⁹	21.897 ³²⁸	12.62 ⁵¹
II	48.067 ³⁰⁰	27.42 ⁸⁷	58.104 ⁴⁹¹	48.04 ¹⁰	14.607 ³⁵⁹	48.64 ¹⁰⁸	22.225 ³²⁵	13.13 ¹⁰⁴
21	48.367 ²⁹⁴	28.29 ¹¹⁵	58.595 ⁴⁸⁰	47.94 ¹⁵	14.966 ³⁴⁶	49.72 ¹⁶²	22.550 ³¹⁶	14.17 ¹⁵³
Mai 1	48.661 ²⁸³	29.44 ¹³⁸	59.075 ⁴⁶¹	48.09 ⁴⁰	15.312 ³²⁵	51.34 ²¹⁰	22.866 ²⁹⁹	15.70 ¹⁹⁵
II	48.944 ²⁶⁷	30.82 ¹⁵⁵	59.536 ⁴³⁵	48.49 ⁶⁵	15.637 ²⁹⁷	53.44 ²⁵¹	23.165 ²⁷⁸	17.65 ²³²
21	49.211 ²⁴⁵	32.37 ¹⁶⁷	59.971 ³⁹⁹	49.14 ⁸⁹	15.934 ²⁶¹	55.95 ²⁸³	23.443 ²⁵⁰	19.97 ²⁵⁹
31	49.456 ²¹⁹	34.04 ¹⁷⁴	60.370 ³⁵⁶	50.03 ¹¹³	16.195 ²²⁰	58.78 ³⁰⁵	23.693 ²¹⁵	22.56 ²⁷⁹
Juni 10	49.675 ¹⁸⁷	35.78 ¹⁷⁵	60.726 ³⁰⁵	51.16 ¹³²	16.415 ¹⁷³	61.83 ³¹⁹	23.908 ¹⁷⁷	25.35 ²⁹¹
20	49.862 ¹⁵¹	37.53 ¹⁷¹	61.031 ²⁴⁷	52.48 ¹⁴⁹	16.588 ¹²²	65.02 ³²⁴	24.085 ¹³⁴	28.26 ²⁹⁴
30	50.013 ¹¹²	39.24 ¹⁶²	61.278 ¹⁸²	53.97 ¹⁶²	16.710 ⁶⁸	68.26 ³²¹	24.219 ⁸⁷	31.20 ²⁸⁹
Juli 9	50.125 ⁷⁰	40.86 ¹⁵¹	61.460 ¹¹⁴	55.59 ¹⁶⁹	16.778 ¹³	71.47 ³⁰⁹	24.306 ⁴⁰	34.09 ²⁷⁸
19	50.195 ²⁸	42.37 ¹³⁷	61.574 ⁴⁵	57.28 ¹⁷¹	16.791 ⁴²	74.56 ²⁹¹	24.346 ⁹	36.87 ²⁶⁰
29	50.223 ¹⁵	43.74 ¹¹⁹	61.619 ²⁵	58.99 ¹⁶⁷	16.749 ⁹⁵	77.47 ²⁶⁶	24.337 ⁵⁶	39.47 ²³⁷
Aug. 8	50.208 ⁵⁵	44.93 ⁹⁹	61.594 ⁹¹	60.66 ¹⁵⁷	16.654 ¹⁴⁴	80.13 ²³⁵	24.281 ¹⁰¹	41.84 ²⁰⁸
18	50.153 ⁹²	45.92 ⁸⁰	61.503 ¹⁵²	62.23 ¹⁴¹	16.510 ¹⁸⁸	82.48 ²⁰⁰	24.180 ¹⁴¹	43.92 ¹⁷⁶
28	50.061 ¹²²	46.72 ⁶⁰	61.351 ²⁰³	63.64 ¹¹⁸	16.322 ²²⁵	84.48 ¹⁶⁰	24.039 ¹⁷⁴	45.68 ¹⁴⁰
Sept. 7	49.939 ¹⁴⁵	47.32 ³⁹	61.148 ²⁴³	64.82 ⁹¹	16.097 ²⁵³	86.08 ¹¹⁶	23.865 ²⁰⁰	47.08 ¹⁰²
17	49.794 ¹⁶¹	47.71 ¹⁷	60.905 ²⁶⁹	65.73 ⁵⁹	15.844 ²⁷²	87.24 ⁷¹	23.665 ²¹⁷	48.10 ⁶⁰
27	49.633 ¹⁶⁷	47.88 ⁴	60.636 ²⁸¹	66.32 ²⁴	15.572 ²⁸¹	87.95 ²³	23.448 ²²⁵	48.70 ¹⁹
Okt. 7	49.466 ¹⁶³	47.84 ²⁴	60.355 ²⁷⁶	66.56 ¹³	15.291 ²⁷⁸	88.18 ²⁶	23.223 ²²²	48.89 ²⁵
17	49.303 ¹⁴⁹	47.60 ⁴⁶	60.079 ²⁵⁵	66.43 ⁵⁰	15.013 ²⁶⁴	87.92 ⁷⁵	23.001 ²¹⁰	48.64 ⁶⁹
27	49.154 ¹²⁷	47.14 ⁶⁶	59.824 ²²⁰	65.93 ⁸⁴	14.749 ²⁴⁰	87.17 ¹²⁴	22.791 ¹⁸⁸	47.95 ¹¹¹
Nov. 6	49.027 ⁹⁸	46.48 ⁸⁶	59.604 ¹⁷¹	65.09 ¹¹⁶	14.509 ²⁰⁵	85.93 ¹⁷¹	22.603 ¹⁵⁶	46.84 ¹⁵³
16	48.929 ⁶²	45.62 ¹⁰⁶	59.433 ¹¹¹	63.93 ¹⁴⁴	14.304 ¹⁶⁴	84.22 ²¹⁴	22.447 ¹¹⁹	45.31 ¹⁹¹
26	48.867 ²²	44.56 ¹²²	59.322 ⁴⁵	62.49 ¹⁶⁵	14.140 ¹¹⁵	82.08 ²⁵³	22.328 ⁷⁷	43.40 ²²⁵
Dez. 6	48.845 ²⁰	43.34 ¹³⁷	59.277 ²⁷	60.84 ¹⁸⁰	14.025 ⁶¹	79.55 ²⁸⁴	22.251 ²⁹	41.15 ²⁵³
16	48.865 ⁶³	41.97 ¹⁴⁸	59.304 ⁹⁸	59.04 ¹⁸⁹	13.964 ⁵	76.71 ³⁰⁷	22.222 ²⁰	38.62 ²⁷⁴
26	48.928 ¹⁰⁴	40.49 ¹⁵⁴	59.402 ¹⁶⁸	57.15 ¹⁹²	13.959 ⁵¹	73.64 ³²¹	22.242 ⁶⁷	35.88 ²⁸⁶
36	49.032	38.95	59.570	55.23	14.010	70.43	22.309	33.02
Mittl. Ort sec δ , tg δ	47.354 1.003	44.59 +0.072	56.743 1.663	50.25 —1.328	14.154 1.387	75.33 +0.961	21.716 1.187	37.81 +0.639
a, a'	+3.0	+4.6	+4.8	+4.6	+1.8	+4.6	+2.2	+4.9
b, b'	0.00	+0.97	—0.02	+0.97	+0.01	+0.97	+0.01	+0.97

Tag	716) ζ Aquilae		717) λ Aquilae		718) α Coron. austr.		720) π Sagittarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	19 ^h 2 ^m	+13° 45'	19 ^h 2 ^m	−4° 59'	19 ^h 4 ^m	−38° 0'	19 ^h 5 ^m	−21° 8'
Jan. I	12.585 ₁₁₀	25.25 ₂₀₇	33.566 ₁₂₆	24.59 ₁₀₁	44.736 ₁₆₀	60.56 ₁₀₅	37.910 ₁₃₈	16.06 ₀
II	12.695 ₁₄₇	23.18 ₂₀₃	33.692 ₁₆₂	25.60 ₉₉	44.896 ₂₀₇	59.51 ₁₀₄	38.048 ₁₇₇	16.06 ₂
21	12.842 ₁₈₀	21.15 ₁₉₂	33.854 ₁₉₄	26.59 ₉₂	45.103 ₂₄₇	58.47 ₁₀₂	38.225 ₂₁₁	16.04 ₄
31	13.022 ₂₁₁	19.23 ₁₇₂	34.048 ₂₂₂	27.51 ₈₀	45.350 ₂₈₂	57.45 ₉₈	38.436 ₂₄₁	16.00 ₉
Feb. 10	13.233 ₂₃₇	17.51 ₁₄₅	34.270 ₂₄₅	28.31 ₆₃	45.632 ₃₁₂	56.47 ₉₂	38.677 ₂₆₅	15.91 ₁₅
20	13.470 ₂₅₈	16.06 ₁₁₂	34.515 ₂₆₄	28.94 ₄₂	45.944 ₃₃₇	55.55 ₈₇	38.942 ₂₈₆	15.76 ₂₃
März 2	13.728 ₂₇₆	14.94 ₇₃	34.779 ₂₈₁	29.36 ₁₉	46.281 ₃₅₆	54.68 ₈₁	39.228 ₃₀₂	15.53 ₃₂
12	14.004 ₂₈₈	14.21 ₃₂	35.060 ₂₉₂	29.55 ₇	46.637 ₃₇₀	53.87 ₇₄	39.530 ₃₁₅	15.21 ₄₂
22	14.292 ₂₉₈	13.89 ₁₁	35.352 ₃₀₁	29.48 ₃₂	47.007 ₃₈₁	53.13 ₆₅	39.845 ₃₂₅	14.79 ₅₁
Apr. I	14.590 ₃₀₃	14.00 ₅₄	35.653 ₃₀₆	29.16 ₅₇	47.388 ₃₈₇	52.48 ₅₇	40.170 ₃₂₉	14.28 ₆₀
11	14.893 ₃₀₂	14.54 ₉₄	35.959 ₃₀₆	28.59 ₈₀	47.775 ₃₈₇	51.91 ₄₅	40.499 ₃₃₁	13.68 ₆₆
21	15.195 ₂₉₇	15.48 ₁₃₀	36.265 ₃₀₂	27.79 ₁₀₀	48.162 ₃₈₃	51.46 ₃₃	40.830 ₃₂₈	13.02 ₇₀
Mai I	15.492 ₂₈₆	16.78 ₁₆₀	36.567 ₂₉₄	26.79 ₁₁₅	48.545 ₃₇₂	51.13 ₁₉	41.158 ₃₁₈	12.32 ₇₀
11	15.778 ₂₇₀	18.38 ₁₈₆	36.861 ₂₇₉	25.64 ₁₂₆	48.917 ₃₅₄	50.94 ₃	41.476 ₃₀₅	11.62 ₆₉
21	16.048 ₂₄₉	20.24 ₂₀₄	37.140 ₂₅₉	24.38 ₁₃₂	49.271 ₃₃₀	50.91 ₁₃	41.781 ₂₈₄	10.93 ₆₃
31	16.297 ₂₂₁	22.28 ₂₁₆	37.399 ₂₃₄	23.06 ₁₃₅	49.601 ₂₉₈	51.04 ₃₀	42.065 ₂₅₈	10.30 ₅₆
Juni 10	16.518 ₁₈₉	24.44 ₂₂₂	37.633 ₂₀₃	21.71 ₁₃₂	49.899 ₂₆₂	51.34 ₄₆	42.323 ₂₂₆	9.74 ₄₇
20	16.707 ₁₅₂	26.66 ₂₂₀	37.836 ₁₆₈	20.39 ₁₂₅	50.161 ₂₁₇	51.80 ₆₂	42.549 ₁₈₉	9.27 ₃₅
30	16.859 ₁₁₂	28.86 ₂₁₄	38.004 ₁₂₈	19.14 ₁₁₆	50.378 ₁₆₈	52.42 ₇₆	42.738 ₁₄₇	8.92 ₂₃
Juli 9	16.971 ₇₀	31.00 ₂₀₃	38.132 ₈₇	17.98 ₁₀₄	50.546 ₁₁₆	53.18 ₈₇	42.885 ₁₀₂	8.69 ₁₂
19	17.041 ₂₆	33.03 ₁₈₆	38.219 ₄₃	16.94 ₉₁	50.662 ₆₁	54.05 ₉₅	42.987 ₅₅	8.57 ₀
29	17.067 ₁₈	34.89 ₁₆₇	38.262 ₀	16.03 ₇₆	50.723 ₆	55.00 ₉₈	43.042 ₉	8.57 ₉
Aug. 8	17.049 ₅₉	36.56 ₁₄₄	38.262 ₄₂	15.27 ₆₁	50.729 ₄₇	55.98 ₉₈	43.051 ₃₆	8.66 ₁₇
18	16.990 ₉₆	38.00 ₁₁₉	38.220 ₇₉	14.66 ₄₅	50.682 ₉₅	56.96 ₉₃	43.015 ₇₇	8.83 ₂₃
28	16.894 ₁₂₇	39.19 ₉₃	38.141 ₁₁₂	14.21 ₃₁	50.587 ₁₃₆	57.89 ₈₃	42.938 ₁₁₃	9.06 ₂₅
Sept. 7	16.767 ₁₅₂	40.12 ₆₆	38.029 ₁₃₇	13.90 ₁₈	50.451 ₁₇₀	58.72 ₆₈	42.825 ₁₄₁	9.31 ₂₆
17	16.614 ₁₆₉	40.78 ₃₆	37.892 ₁₅₄	13.72 ₄	50.281 ₁₉₃	59.40 ₅₁	42.684 ₁₅₉	9.57 ₂₅
27	16.445 ₁₇₆	41.14 ₇	37.738 ₁₆₂	13.68 ₈	50.088 ₂₀₃	59.91 ₃₁	42.525 ₁₆₉	9.82 ₂₁
Okt. 7	16.269 ₁₇₅	41.21 ₂₃	37.576 ₁₅₉	13.76 ₂₁	49.885 ₂₀₁	60.22 ₉	42.356 ₁₆₇	10.03 ₁₆
17	16.094 ₁₆₃	40.98 ₅₂	37.417 ₁₄₇	13.97 ₃₃	49.684 ₁₈₇	60.31 ₁₄	42.189 ₁₅₄	10.19 ₁₂
27	15.931 ₁₄₃	40.46 ₈₁	37.270 ₁₂₆	14.30 ₄₄	49.497 ₁₆₁	60.17 ₃₆	42.035 ₁₃₂	10.31 ₆
Nov. 6	15.788 ₁₁₄	39.65 ₁₀₉	37.144 ₉₇	14.74 ₅₆	49.336 ₁₂₅	59.81 ₅₆	41.903 ₁₀₁	10.37 ₃
16	15.674 ₈₀	38.56 ₁₃₆	37.047 ₆₂	15.30 ₆₇	49.211 ₈₀	59.25 ₇₃	41.802 ₆₃	10.40 ₀
26	15.594 ₄₁	37.20 ₁₅₉	36.985 ₂₂	15.97 ₇₈	49.131 ₃₀	58.52 ₈₇	41.739 ₂₁	10.40 ₂
Dez. 6	15.553 ₁	35.61 ₁₇₉	36.963 ₁₉	16.75 ₈₇	49.101 ₂₃	57.65 ₉₈	41.718 ₂₄	10.38 ₃
16	15.554 ₄₄	33.82 ₁₉₄	36.982 ₆₂	17.62 ₉₅	49.124 ₇₇	56.67 ₁₀₄	41.742 ₆₉	10.35 ₃
26	15.598 ₈₅	31.88 ₂₀₂	37.044 ₁₀₂	18.57 ₉₇	49.201 ₁₃₁	55.63 ₁₀₈	41.811 ₁₁₄	10.32 ₃
36	15.683	29.86	37.146	19.54	49.332	54.55	41.925	10.29
Mittl. Ort	14.298	34.45	35.239	14.63	46.753	49.60	39.666	5.49
sec δ, tg δ	1.030	+0.245	1.004	−0.087	1.269	−0.782	1.072	−0.387
a, a'	+2.8	+5.4	+3.2	+5.4	+4.1	+5.6	+3.6	+5.7
b, b'	0.00	+0.96	0.00	+0.96	−0.01	+0.96	−0.01	+0.96

Tag	723) δ Draconis		724) θ Lyrae		725) ω Aquilae		726) α Cygni	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	19 ^h 12 ^m	+67 ^o 31'	19 ^h 13 ^m	+38 ^o 0'	19 ^h 14 ^m	+11 ^o 27'	19 ^h 15 ^m	+53 ^o 13'
Jan. 1	28.72	78.39	56.293	27.95	32.956	61.88	27.921	79.15
11	28.70	78.39	56.361	24.92	33.055	59.98	27.956	75.77
21	28.79	71.36	56.478	21.90	33.192	58.10	28.056	72.38
31	28.98	67.95	56.640	19.00	33.362	56.33	28.221	69.11
Feb. 10	29.27	64.78	56.845	16.34	33.563	54.73	28.446	66.07
20	29.65	61.96	57.087	14.02	33.790	53.38	28.724	63.40
März 2	30.11	59.61	57.362	12.13	34.040	52.35	29.049	61.19
12	30.64	57.82	57.663	10.75	34.309	51.67	29.412	59.52
22	31.21	56.64	57.984	9.93	34.592	51.39	29.804	58.46
Apr. 1	31.81	56.12	58.319	9.70	34.886	51.52	30.216	58.03
11	32.42	56.26	58.662	10.05	35.187	52.05	30.637	58.26
21	33.02	57.06	59.004	10.97	35.490	52.97	31.056	59.11
Mai 1	33.60	58.46	59.340	12.43	35.790	54.23	31.463	60.56
11	34.13	60.42	59.662	14.35	36.081	55.79	31.847	62.54
21	34.61	62.87	59.962	16.68	36.359	57.58	32.200	64.98
31	35.02	65.72	60.233	19.34	36.616	59.56	32.512	67.81
Juni 10	35.35	68.87	60.469	22.24	36.848	61.65	32.775	70.92
20	35.59	72.25	60.665	25.29	37.049	63.79	32.984	74.24
30	35.73	75.75	60.815	28.41	37.214	65.92	33.132	77.67
Juli 10	35.78	79.29	60.916	31.52	37.339	67.99	33.217	81.11
19	35.72	82.77	60.967	34.54	37.423	69.95	33.236	84.49
29	35.57	86.11	60.965	37.41	37.462	71.76	33.189	87.72
Aug. 8	35.32	89.25	60.912	40.06	37.458	73.38	33.078	90.74
18	34.98	92.10	60.812	42.44	37.412	74.78	32.908	93.48
28	34.57	94.61	60.668	44.49	37.328	75.95	32.684	95.87
Sept. 7	34.09	96.73	60.487	46.18	37.210	76.86	32.413	97.87
17	33.56	98.40	60.275	47.47	37.067	77.51	32.105	99.44
27	32.98	99.59	60.043	48.33	36.905	77.90	31.770	100.54
Okt. 7	32.38	100.27	59.799	48.75	36.734	78.02	31.420	101.14
17	31.78	100.42	59.554	48.70	36.563	77.86	31.067	101.22
27	31.19	100.01	59.318	48.19	36.401	77.42	30.723	100.78
Nov. 6	30.62	99.06	59.102	47.22	36.258	76.71	30.400	99.80
16	30.10	97.57	58.915	45.80	36.142	75.74	30.110	98.31
26	29.65	95.56	58.763	43.95	36.058	74.52	29.863	96.33
Dez. 6	29.27	93.08	58.654	41.72	36.011	73.08	29.668	93.91
16	28.98	90.21	58.592	39.16	36.004	71.45	29.532	91.11
26	28.78	87.02	58.579	36.36	36.039	69.68	29.459	88.02
36	28.69	83.62	58.617	33.40	36.115	67.82	29.453	84.73
Mittl. Ort	32.65	84.36	58.346	35.40	34.651	70.95	30.540	85.60
sec δ , tg δ	2.618	+2.419	1.269	+0.782	1.020	+0.203	1.671	+1.339
a, a'	0.0	+6.2	+2.1	+6.4	+2.8	+6.4	+1.4	+6.5
b, b'	+0.05	+0.95	+0.02	+0.95	0.00	+0.95	+0.03	+0.95

Tag	729) τ Draconis			728) α Sagittarii			730) δ Aquilae			732) β Cygni		
	AR.	Dekl.		AR.	Dekl.		AR.	Dekl.		AR.	Dekl.	
1931	19 ^h 16 ^m	+73° 13'		19 ^h 19 ^m	-40° 44'		19 ^h 21 ^m	+2° 58'		19 ^h 27 ^m	+27° 48'	
Jan. I	48.32	35.10	346	4.446	62.43	126	59.510	23.60	141	54.433	41.61	261
II	48.23	31.64	351	4.592	61.17	128	59.611	22.19	138	54.500	39.00	262
21	48.28	28.13	342	4.786	59.89	126	59.747	20.81	130	54.610	36.38	252
31	48.48	24.71	320	5.023	58.63	123	59.917	19.51	115	54.759	33.86	231
Feb. 10	48.82	21.51	286	5.299	57.40	117	60.116	18.36	95	54.945	31.55	202
20	49.28	18.65	240	5.608	56.23	111	60.341	17.41	69	55.164	29.53	164
März 2	49.85	16.25	187	5.944	55.12	103	60.588	16.72	39	55.411	27.89	119
12	50.51	14.38	126	6.302	54.09	94	60.854	16.33	8	55.683	26.70	70
22	51.23	13.12	62	6.679	53.15	85	61.135	16.25	26	55.975	26.00	17
Apr. I	51.99	12.50	5	7.069	52.30	72	61.427	16.51	59	56.282	25.83	35
II	52.77	12.55	69	7.468	51.58	59	61.727	17.10	89	56.599	26.18	87
21	53.55	13.24	131	7.870	50.99	43	62.031	17.99	117	56.919	27.05	134
Mai I	54.29	14.55	188	8.269	50.56	26	62.334	19.16	139	57.236	28.39	176
II	54.97	16.43	236	8.660	50.30	8	62.630	20.55	157	57.545	30.15	213
21	55.57	18.79	278	9.034	50.22	12	62.914	22.12	170	57.838	32.28	241
31	56.08	21.57	310	9.386	50.34	32	63.180	23.82	176	58.109	34.69	265
Juni 10	56.49	24.67	333	9.707	50.66	51	63.422	25.58	178	58.352	37.32	277
20	56.77	28.00	348	9.991	51.17	69	63.635	27.36	174	58.560	40.09	282
30	56.93	31.48	352	10.230	51.86	86	63.813	29.10	167	58.729	42.91	280
Juli 10	56.96	35.00	349	10.419	52.72	99	63.953	30.77	154	58.855	45.71	272
19	56.85	38.49	337	10.554	53.71	109	64.051	32.31	140	58.935	48.43	259
29	56.62	41.86	317	10.632	54.80	113	64.106	33.71	123	58.967	51.02	239
Aug. 8	56.27	45.03	291	10.653	55.93	114	64.117	34.94	104	58.952	53.41	214
18	55.80	47.94	258	10.618	57.07	110	64.086	35.98	84	58.892	55.55	185
28	55.23	50.52	220	10.530	58.17	99	64.016	36.82	65	58.790	57.40	153
Sept. 7	54.58	52.72	177	10.398	59.16	85	63.912	37.47	44	58.652	58.93	118
17	53.85	54.49	129	10.229	60.01	66	63.781	37.91	23	58.484	60.11	81
27	53.07	55.78	79	10.033	60.67	43	63.631	38.14	3	58.295	60.92	42
Okt. 7	52.26	56.57	26	9.823	61.10	20	63.470	38.17	17	58.093	61.34	2
17	51.43	56.83	29	9.611	61.30	7	63.308	38.00	35	57.889	61.36	38
27	50.61	56.54	84	9.411	61.23	33	63.155	37.65	55	57.692	60.98	78
Nov. 6	49.83	55.70	138	9.234	60.90	56	63.019	37.10	74	57.511	60.20	118
16	49.10	54.32	190	9.093	60.34	78	62.910	36.36	91	57.354	59.02	154
26	48.45	52.42	238	8.994	59.56	96	62.831	35.45	107	57.230	57.48	188
Dez. 6	47.90	50.04	279	8.945	58.60	111	62.789	34.38	121	57.142	55.60	217
16	47.46	47.25	312	8.950	57.49	120	62.787	33.17	131	57.096	53.43	239
26	47.14	44.13	336	9.010	56.29	127	62.824	31.86	137	57.093	51.04	254
36	46.96	40.77		9.124	55.02		62.901	30.49		57.134	48.50	
Mittl. Ort	53.44	40.46		6.484	50.63		61.167	33.12		56.290	49.06	
sec δ , tg δ	3.465	+3.318		1.320	-0.862		1.001	+0.052		1.131	+0.528	
α , α'	-1.1	+6.6		+4.2	+6.8		+3.0	+7.0		+2.4	+7.5	
δ , δ'	+0.07	+0.94		-0.02	+0.94		0.00	+0.94		+0.01	+0.93	

Tag	733) ♐ Cygni		736) ♐ Sagittarii		738) ♐ Cygni		742) ♐ Cygni	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	19 ^h 27 ^m	+51° 34'	19 ^h 32 ^m	−25° 2'	19 ^h 34 ^m	+50° 3'	19 ^h 42 ^m	+44° 57'
Jan. I	55.464 ₂₀	49.58 ₃₃₀	28.867 ₁₁₄	26.27 ₃₃	32.971 ₁₅	32.30 ₃₂₄	46.852 ₁₈	35.99 ₃₁₀
II	55.484 ₈₃	46.28 ₃₃₄	28.981 ₁₅₄	25.94 ₃₇	32.986 ₇₆	29.06 ₃₂₉	46.870 ₇₂	32.89 ₃₁₅
21	55.567 ₁₄₅	42.94 ₃₂₅	29.135 ₁₉₀	25.57 ₄₁	33.062 ₁₃₅	25.77 ₃₂₁	46.942 ₁₂₅	29.74 ₃₀₉
31	55.712 ₂₀₃	39.69 ₃₀₃	29.325 ₂₂₁	25.16 ₄₅	33.197 ₁₉₁	22.56 ₃₀₁	47.067 ₁₇₆	26.65 ₂₉₁
Feb. 10	55.915 ₂₅₆	36.66 ₂₇₀	29.546 ₂₅₀	24.71 ₅₁	33.388 ₂₄₂	19.55 ₂₆₉	47.243 ₂₂₁	23.74 ₂₆₁
20	56.171 ₃₀₃	33.96 ₂₂₇	29.796 ₂₇₄	24.20 ₅₈	33.630 ₂₈₉	16.86 ₂₂₈	47.464 ₂₆₄	21.13 ₂₂₀
März 2	56.474 ₃₄₂	31.69 ₁₇₄	30.070 ₂₉₄	23.62 ₆₄	33.919 ₃₂₈	14.58 ₁₇₆	47.728 ₃₀₀	18.93 ₁₇₂
12	56.816 ₃₇₃	29.95 ₁₁₅	30.364 ₃₁₂	22.98 ₇₁	34.247 ₃₅₉	12.82 ₁₁₈	48.028 ₃₂₉	17.21 ₁₁₇
22	57.189 ₃₉₅	28.80 ₅₃	30.676 ₃₂₆	22.27 ₇₇	34.606 ₃₈₂	11.64 ₅₇	48.357 ₃₅₂	16.04 ₅₆
Apr. I	57.584 ₄₀₇	28.27 ₁₁	31.002 ₃₃₆	21.50 ₈₂	34.988 ₃₉₆	11.07 ₆	48.709 ₃₆₇	15.48 ₅
II	57.991 ₄₀₉	28.38 ₇₄	31.338 ₃₄₁	20.68 ₈₄	35.384 ₄₀₀	11.13 ₆₉	49.076 ₃₇₃	15.53 ₆₅
21	58.400 ₄₀₁	29.12 ₁₃₃	31.679 ₃₄₂	19.84 ₈₃	35.784 ₃₉₅	11.82 ₁₂₉	49.449 ₃₇₁	16.18 ₁₂₃
Mai I	58.801 ₃₈₄	30.45 ₁₈₈	32.021 ₃₃₈	19.01 ₈₀	36.179 ₃₇₉	13.11 ₁₈₂	49.820 ₃₅₉	17.41 ₁₇₅
II	59.185 ₃₅₆	32.33 ₂₃₅	32.359 ₃₂₇	18.21 ₇₄	36.558 ₃₅₄	14.93 ₂₃₀	50.179 ₃₄₀	19.16 ₂₂₃
21	59.541 ₃₂₀	34.68 ₂₇₅	32.686 ₃₀₉	17.47 ₆₅	36.912 ₃₂₁	17.23 ₂₇₁	50.519 ₃₁₂	21.39 ₂₆₂
31	59.861 ₂₇₅	37.43 ₃₀₅	32.995 ₂₈₆	16.82 ₅₄	37.233 ₂₇₉	19.94 ₃₀₂	50.831 ₂₇₆	24.01 ₂₉₂
Juni 10	60.136 ₂₂₄	40.48 ₃₂₈	33.281 ₂₅₆	16.28 ₄₀	37.512 ₂₃₀	22.96 ₃₂₄	51.107 ₂₃₄	26.93 ₃₁₅
20	60.360 ₁₆₆	43.76 ₃₄₀	33.537 ₂₁₉	15.88 ₂₆	37.742 ₁₇₆	26.20 ₃₃₈	51.341 ₁₈₅	30.08 ₃₂₉
30	60.526 ₁₀₆	47.16 ₃₄₄	33.756 ₁₇₇	15.62 ₁₁	37.918 ₁₁₆	29.58 ₃₄₄	51.526 ₁₃₁	33.37 ₃₃₃
Juli 10	60.632 ₄₂	50.60 ₃₄₀	33.933 ₁₃₂	15.51 ₄	38.034 ₅₆	33.02 ₃₄₀	51.657 ₇₆	36.70 ₃₃₁
19	60.674 ₂₁	54.00 ₃₂₈	34.065 ₈₄	15.55 ₁₇	38.090 ₇	36.42 ₃₂₈	51.733 ₁₉	40.01 ₃₂₀
29	60.653 ₈₄	57.28 ₃₀₈	34.149 ₃₅	15.72 ₂₉	38.083 ₆₈	39.70 ₃₀₉	51.752 ₃₉	43.21 ₃₀₂
Aug. 8	60.569 ₁₄₃	60.36 ₂₈₁	34.184 ₁₃	16.01 ₃₈	38.015 ₁₂₆	42.79 ₂₈₄	51.713 ₉₂	46.23 ₂₇₈
18	60.426 ₁₉₇	63.17 ₂₄₉	34.171 ₅₈	16.39 ₄₄	37.889 ₁₈₀	45.63 ₂₅₃	51.621 ₁₄₃	49.01 ₂₄₈
28	60.229 ₂₄₅	65.66 ₂₁₁	34.113 ₉₇	16.83 ₄₆	37.709 ₂₂₆	48.16 ₂₁₆	51.478 ₁₈₈	51.49 ₂₁₃
Sept. 7	59.984 ₂₈₃	67.77 ₁₇₀	34.016 ₁₃₀	17.29 ₄₆	37.483 ₂₆₅	50.32 ₁₇₅	51.290 ₂₂₄	53.62 ₁₇₃
17	59.701 ₃₁₁	69.47 ₁₂₄	33.886 ₁₅₅	17.75 ₄₂	37.218 ₂₉₄	52.07 ₁₃₀	51.066 ₂₅₃	55.35 ₁₃₀
27	59.390 ₃₂₉	70.71 ₇₅	33.731 ₁₆₈	18.17 ₃₆	36.924 ₃₁₃	53.37 ₈₂	50.813 ₂₇₁	56.65 ₈₅
Okt. 7	59.061 ₃₃₅	71.46 ₂₄	33.563 ₁₇₁	18.53 ₂₈	36.611 ₃₁₉	54.19 ₃₂	50.542 ₂₇₈	57.50 ₃₆
17	58.726 ₃₂₈	71.70 ₂₈	33.392 ₁₆₄	18.81 ₁₈	36.292 ₃₁₅	54.51 ₂₀	50.264 ₂₇₅	57.86 ₁₄
27	58.398 ₃₁₁	71.42 ₈₁	33.228 ₁₄₅	18.99 ₈	35.977 ₂₉₉	54.31 ₇₂	49.989 ₂₆₁	57.72 ₆₄
Nov. 6	58.087 ₂₈₁	70.61 ₁₃₃	33.083 ₁₁₉	19.07 ₂	35.678 ₂₇₁	53.59 ₁₂₄	49.728 ₂₃₈	57.08 ₁₁₄
16	57.806 ₂₄₃	69.28 ₁₈₂	32.964 ₈₄	19.05 ₁₀	35.407 ₂₃₄	52.35 ₁₇₄	49.490 ₂₀₄	55.94 ₁₆₁
26	57.563 ₁₉₅	67.46 ₂₂₇	32.880 ₄₄	18.95 ₁₈	35.173 ₁₉₀	50.61 ₂₁₈	49.286 ₁₆₅	54.33 ₂₀₆
Dez. 6	57.368 ₁₄₀	65.19 ₂₆₇	32.836 ₀	18.77 ₂₅	34.983 ₁₃₈	48.43 ₂₅₈	49.121 ₁₁₈	52.27 ₂₄₄
16	57.228 ₈₁	62.52 ₂₉₈	32.836 ₄₄	18.52 ₂₉	34.845 ₈₂	45.85 ₂₉₁	49.003 ₆₈	49.83 ₂₇₆
26	57.147 ₁₈	59.54 ₃₁₉	32.880 ₈₇	18.23 ₃₄	34.763 ₂₂	42.94 ₃₁₃	48.935 ₁₄	47.07 ₂₉₉
36	57.129	56.35	32.967	17.89	34.741	39.81	48.921	44.08
Mittl. Ort	58.012	55.23	30.603	14.67	35.450	37.58	49.124	41.12
sec 2, tg δ	1.609	+1.261	1.104	−0.467	1.558	+1.194	1.413	+0.999
a, a'	+1.5	+7.5	+3.6	+7.9	+1.6	+8.0	+1.9	+8.7
b, b'	+0.03	+0.93	−0.01	+0.92	+0.03	+0.92	+0.03	+0.90

Tag	741) γ Aquilae		743) δ Sagittae		745) α Aquilae ¹⁾		747) ϵ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	19 ^h 42 ^m	+10° 26'	19 ^h 44 ^m	+18° 21'	19 ^h 47 ^m	+8° 40'	19 ^h 48 ^m	+70° 5'
Jan. I	57.085	29.59	16.925	38.86	23.342	56.77	20.50	28.99
II	57.158 ⁷³	27.84 ¹⁷⁵	16.988 ⁶³	36.72 ²¹⁴	23.416 ⁷⁴	55.14 ¹⁶³	20.36 ¹⁴	25.66 ³³³
21	57.268 ¹¹⁰	26.10 ¹⁷⁴	17.089 ¹⁰¹	34.58 ²¹⁴	23.526 ¹¹⁰	53.53 ¹⁶¹	20.34 ²	345
31	57.411 ¹⁴³	24.44 ¹⁶⁶	17.226 ¹³⁷	32.52 ²⁰⁶	23.670 ¹⁴⁴	52.00 ¹⁵³	20.44 ¹⁰	18.77 ³⁴⁴
Feb. 10	57.586 ¹⁷⁵	22.94 ¹⁵⁰	17.397 ¹⁷¹	30.63 ¹⁸⁹	23.846 ¹⁷⁶	50.62 ¹³⁸	20.66 ²²	15.47 ³³⁰
20	57.790 ²⁰⁴	21.67 ¹²⁷	17.598 ²⁰¹	28.98 ¹⁶⁵	24.049 ²⁰³	49.46 ¹¹⁶	20.99 ³³	12.44 ³⁰³
März 2	58.019 ²²⁹	20.68 ⁹⁹	17.826 ²²⁸	27.66 ¹³²	24.278 ²²⁹	48.58 ⁸⁸	21.42 ⁴³	9.79 ²⁶⁵
12	58.270 ²⁵¹	20.03 ⁶⁵	18.079 ²⁵³	26.73 ⁹³	24.529 ²⁵¹	48.03 ⁵⁵	21.93 ⁵¹	7.63 ²¹⁶
22	58.541 ²⁷¹	19.76 ²⁷	18.352 ²⁷³	26.22 ⁵¹	24.799 ²⁷⁰	47.84 ¹⁹	22.52 ⁵⁹	6.04 ¹⁵⁹
Apr. I	58.826 ²⁸⁵	19.88 ¹²	18.642 ²⁹⁰	26.16 ⁶	25.085 ²⁸⁶	48.02 ¹⁸	23.16 ⁶⁴	5.07 ⁹⁷
II	59.123 ²⁹⁷	20.38 ⁵⁰	18.943 ³⁰¹	26.56 ⁴⁰	25.382 ²⁹⁷	48.58 ⁵⁶	23.83 ⁶⁷	4.75 ³²
21	59.427 ³⁰⁴	21.27 ⁸⁹	19.251 ³⁰⁸	27.41 ⁸⁵	25.686 ³⁰⁴	49.50 ⁹²	24.50 ⁶⁷	5.08 ³³
Mai I	59.733 ³⁰⁶	22.50 ¹²³	19.561 ³¹⁰	28.66 ¹²⁵	25.992 ³⁰⁶	50.76 ¹²⁶	25.16 ⁶⁶	6.05 ⁹⁷
11	60.034 ³⁰¹	24.03 ¹⁵³	19.866 ³⁰⁵	30.28 ¹⁶²	26.295 ³⁰³	52.29 ¹⁵³	25.80 ⁶⁴	7.61 ²¹⁰
21	60.326 ²⁹²	25.80 ¹⁷⁷	20.160 ²⁹⁴	32.20 ¹⁹²	26.588 ²⁹³	54.05 ¹⁷⁶	26.38 ⁵⁸	9.71 ²⁵⁷
31	60.602 ²⁷⁶	27.76 ¹⁹⁶	20.437 ²⁷⁷	34.37 ²¹⁷	26.866 ²⁷⁸	55.98 ¹⁹³	26.90 ⁵²	12.28 ²⁹⁴
Juni 10	60.854 ²⁵²	29.85 ²⁰⁹	20.690 ²⁵³	36.72 ²³⁵	27.121 ²⁵⁵	58.03 ²⁰⁵	27.34 ⁴⁴	15.22 ³²⁴
20	61.078 ²²⁴	32.00 ²¹⁵	20.914 ²²⁴	39.17 ²⁴⁵	27.349 ²²⁸	60.13 ²¹⁰	27.68 ³⁴	18.46 ³²⁴
30	61.269 ¹⁹¹	34.15 ²¹⁰	21.102 ¹⁸⁸	41.66 ²⁴⁹	27.543 ¹⁹⁴	62.22 ²⁰⁹	27.92 ²⁴	21.91 ³⁴⁵
Juli 10	61.422 ¹⁵³	36.25 ²¹⁵	21.250 ¹⁴⁸	44.13 ²⁴⁷	27.699 ¹⁵⁶	64.25 ²⁰³	28.05 ¹³	25.48 ³⁵⁷
18	61.532 ¹¹⁰	38.25 ²⁰⁰	21.356 ¹⁰⁶	46.51 ²³⁸	27.814 ¹¹⁵	66.18 ¹⁹³	28.07 ²	29.07 ³⁵⁹
Aug. 29	61.599 ⁶³	40.10 ¹⁸⁵	21.416 ⁶⁰	48.75 ²²⁴	27.885 ²⁰	67.96 ¹⁷⁸	27.98 ⁹	32.61 ³⁵⁴
8	61.622 ²³	41.78 ¹⁶⁸	21.431 ¹⁵	50.81 ²⁰⁶	27.912 ⁷¹	69.56 ¹⁶⁰	27.78 ²⁰	36.02 ³⁴¹
18	61.601 ²¹	43.25 ¹⁴⁷	21.402 ²⁹	52.65 ¹⁸⁴	27.896 ¹⁶	70.96 ¹⁴⁰	27.48 ³⁰	39.21 ³¹⁹
28	61.540 ⁶¹	44.49 ¹²⁴	21.332 ⁷⁰	54.24 ¹⁵⁹	27.839 ⁵⁷	72.13 ¹¹⁷	27.09 ³⁹	42.13 ²⁹²
Sept. 7	61.443 ⁹⁷	45.48 ⁹⁹	21.225 ¹⁰⁷	55.55 ¹³¹	27.746 ⁹³	73.07 ⁹⁴	26.61 ⁴⁸	44.71 ²⁵⁸
17	61.316 ¹²⁷	46.23 ⁷⁵	21.088 ¹³⁷	56.57 ¹⁰²	27.623 ¹²³	73.77 ⁷⁰	26.06 ⁵⁵	46.89 ²¹⁸
27	61.167 ¹⁴⁹	46.72 ⁴⁹	20.928 ¹⁶⁰	57.27 ⁷⁰	27.478 ¹⁴⁵	74.21 ⁴⁴	25.45 ⁶¹	48.63 ¹⁷⁴
Okt. 7	61.005 ¹⁶²	46.94 ²²	20.754 ¹⁷⁴	57.65 ³⁸	27.320 ¹⁵⁸	74.41 ²⁰	24.81 ⁶⁴	49.89 ¹²⁶
17	60.838 ¹⁶⁷	46.90 ⁴	20.576 ¹⁷⁸	57.71 ⁶	27.157 ¹⁶³	74.36 ⁵	24.81 ⁶⁷	50.62 ⁷³
27	60.677 ¹⁶¹	46.60 ³⁰	20.402 ¹⁷⁴	57.43 ²⁸	26.998 ¹⁵⁹	74.07 ²⁹	24.14 ⁶⁷	50.62 ¹⁹
Nov. 6	60.529 ¹⁴⁸	46.04 ⁵⁶	20.241 ¹⁶¹	56.83 ⁶⁰	26.853 ¹⁴⁵	73.53 ⁵⁴	23.47 ⁶⁶	50.81 ³⁷
16	60.403 ¹²⁶	45.23 ⁸¹	20.102 ¹³⁹	55.90 ⁹³	26.730 ¹²³	72.76 ⁷⁷	22.81 ⁶²	50.44 ⁹⁴
26	60.305 ⁹⁸	44.18 ¹⁰⁵	19.991 ¹¹¹	54.67 ¹²³	26.635 ⁹⁵	71.77 ⁹⁹	22.19 ⁵⁷	49.50 ¹⁴⁹
Dez. 6	60.240 ⁶⁵	42.91 ¹²⁷	19.913 ⁷⁸	53.17 ¹⁵⁰	26.573 ⁶²	70.58 ¹¹⁹	21.62 ⁵⁰	48.01 ²⁰¹
16	60.213 ²⁷	41.45 ¹⁴⁶	19.873 ⁴⁰	51.42 ¹⁷⁵	26.547 ²⁶	69.22 ¹³⁶	21.12 ⁴²	46.00 ²⁴⁷
26	60.224 ¹¹	39.85 ¹⁶⁰	19.872 ¹	49.48 ¹⁹⁴	26.560 ¹³	67.73 ¹⁴⁹	20.70 ³²	43.53 ²⁸⁷
36	60.274 ⁵⁰	38.16 ¹⁶⁹	19.911 ³⁹	47.41 ²⁰⁷	26.611 ⁵¹	66.14 ¹⁵⁹	20.38 ²¹	40.66 ³¹⁷
Mittl. Ort	58.750	38.13	18.652	46.53	24.994	65.52	24.96	31.76
sec δ , tg δ	1.017	+0.184	1.054	+0.332	1.012	+0.153	2.937	+2.761
α , α'	+2.9	+8.7	+2.7	+8.8	+2.9	+9.1	-0.2	+9.1
δ , δ'	+0.01	+0.90	+0.01	+0.90	0.00	+0.89	+0.08	+0.89

1) Die jährliche Parallaxe (0.23) ist bereits berücksichtigt.

*) Bei Stern 745) und 747) lies Juli 20

Tag	749) β Aquilae		748) ϵ Pavonis		750) ψ Cygni		751) θ^1 Sagittarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	19 ^h 51 ^m	+6° 13'	19 ^h 52 ^m	−73° 5'	19 ^h 53 ^m	+52° 14'	19 ^h 55 ^m	−35° 27'
Jan. I	53.800 ⁶⁸	50.74 ¹⁵¹	34.17 ¹²	57.25 ²⁹⁹	48.187 ²¹	74.57 ³²⁰	13.077 ⁹⁵	65.24 ¹⁰²
II	53.868 ¹⁰⁴	49.23 ¹⁴⁹	34.29 ²⁶	54.26 ³⁰⁴	48.166 ⁴²	71.37 ³²⁸	13.172 ¹³⁹	64.22 ¹¹⁰
21	53.972 ¹³⁸	47.74 ¹⁴¹	34.55 ³⁹	51.22 ³⁰¹	48.208 ¹⁰⁵	68.09 ³²⁵	13.311 ¹⁸¹	63.12 ¹¹⁴
31	54.110 ¹⁶⁹	46.33 ¹²⁷	34.94 ⁵¹	48.21 ²⁹¹	48.313 ¹⁶⁶	64.84 ³¹⁰	13.492 ²¹⁸	61.98 ¹¹⁸
Feb. 10	54.279 ¹⁹⁷	45.06 ¹⁰⁷	35.45 ⁶¹	45.30 ²⁷⁵	48.479 ²²²	61.74 ²⁸²	13.710 ²⁵¹	60.80 ¹²⁰
20	54.476 ²²³	43.99 ⁸¹	36.06 ⁷⁰	42.55 ²⁵¹	48.701 ²⁷⁴	58.92 ²⁴³	13.961 ²⁸¹	59.60 ¹²¹
März 2	54.699 ²⁴⁶	43.18 ⁵⁰	36.76 ⁷⁹	40.04 ²²⁵	48.975 ³¹⁹	56.49 ¹⁹⁶	14.242 ³⁰⁷	58.39 ¹²¹
12	54.945 ²⁶⁶	42.68 ¹⁶	37.55 ⁸⁴	37.79 ¹⁹²	49.294 ³⁵⁸	54.53 ¹⁴⁰	14.549 ³³⁰	57.18 ¹¹⁹
22	55.211 ²⁸¹	42.52 ²⁰	38.39 ⁸⁹	35.87 ¹⁵⁷	49.652 ³⁸⁶	53.13 ⁷⁹	14.879 ³⁴⁹	55.99 ¹¹⁵
Apr. I	55.492 ²⁹⁵	42.72 ⁵⁵	39.28 ⁹³	34.30 ¹¹⁹	50.038 ⁴⁰⁶	52.34 ¹⁶	15.228 ³⁶³	54.84 ¹¹⁰
II	55.787 ³⁰³	43.27 ⁸⁹	40.21 ⁹⁴	33.11 ⁷⁸	50.444 ⁴¹⁶	52.18 ⁴⁷	15.591 ³⁷⁴	53.74 ¹⁰¹
21	56.090 ³⁰⁶	44.16 ¹²⁰	41.15 ⁹⁵	32.33 ³⁷	50.860 ⁴¹⁵	52.65 ¹⁰⁸	15.965 ³⁷⁸	52.73 ⁹¹
Mai I	56.396 ³⁰⁴	45.36 ¹⁴⁶	42.10 ⁹³	31.96 ⁷	51.275 ⁴⁰³	53.73 ¹⁶⁵	16.343 ³⁷⁷	51.82 ⁷⁸
II	56.700 ²⁹⁶	46.82 ¹⁶⁸	43.03 ⁸⁹	32.03 ⁴⁹	51.678 ³⁸¹	55.38 ²¹⁵	16.720 ³⁶⁸	51.04 ⁶¹
21	56.996 ²⁸¹	48.50 ¹⁸⁴	43.92 ⁸⁴	32.52 ⁹⁰	52.059 ³⁵⁰	57.53 ²⁵⁸	17.088 ³⁵³	50.43 ⁴³
31	57.277 ²⁶¹	50.34 ¹⁹³	44.76 ⁷⁷	33.42 ¹³⁰	52.409 ³⁰⁹	60.11 ²⁹⁴	17.441 ³³⁰	50.00 ²³
Juni 10	57.538 ²³³	52.27 ¹⁹⁸	45.53 ⁶⁸	34.72 ¹⁶⁶	52.718 ²⁶⁰	63.05 ³²⁰	17.771 ²⁹⁹	49.77 ³
20	57.771 ²⁰¹	54.25 ¹⁹⁶	46.21 ⁵⁷	36.38 ¹⁹⁷	52.978 ²⁰⁵	66.25 ³³⁹	18.070 ²⁶²	49.74 ¹⁹
30	57.972 ¹⁶⁴	56.21 ¹⁹⁰	46.78 ⁴⁶	38.35 ²²³	53.183 ¹⁴⁴	69.64 ³⁴⁷	18.332 ²¹⁷	49.93 ³⁹
Juli 10	58.136 ¹²³	58.11 ¹⁸⁰	47.24 ³²	40.58 ²⁴²	53.327 ⁸¹	73.11 ³⁴⁷	18.549 ¹⁶⁸	50.32 ⁵⁶
20	58.259 ⁷⁹	59.91 ¹⁶⁵	47.56 ¹⁹	43.00 ²⁵⁴	53.408 ¹⁶	76.58 ³⁴⁰	18.717 ¹¹⁵	50.88 ⁷³
29	58.338 ³⁴	61.56 ¹⁴⁸	47.75 ⁴	45.54 ²⁵⁸	53.424 ⁴⁹	79.98 ³²⁵	18.832 ⁶¹	51.61 ⁸⁵
Aug. 8	58.372 ⁹	63.04 ¹²⁸	47.79 ⁹	48.12 ²⁵³	53.375 ¹¹⁰	83.23 ³⁰²	18.893 ⁷	52.46 ⁹⁴
18	58.363 ⁴⁹	64.32 ¹⁰⁷	47.70 ²³	50.65 ²³⁸	53.265 ¹⁶⁸	86.25 ²⁷⁴	18.900 ⁴⁵	53.40 ⁹⁸
28	58.314 ⁸⁷	65.39 ⁸⁴	47.47 ³⁵	53.03 ²¹⁵	53.097 ²²⁰	88.99 ²⁴⁰	18.855 ⁹¹	54.38 ⁹⁶
Sept. 7	58.227 ¹¹⁷	66.23 ⁶²	47.12 ⁴⁶	55.18 ¹⁸³	52.877 ²⁶³	91.39 ²⁰⁰	18.764 ¹³¹	55.34 ⁸⁹
17	58.110 ¹⁴⁰	66.85 ³⁹	46.66 ⁵⁵	57.01 ¹⁴³	52.614 ²⁹⁷	93.39 ¹⁵⁷	18.633 ¹⁶²	56.23 ⁷⁹
27	57.970 ¹⁵⁵	67.24 ¹⁶	46.11 ⁶⁰	58.44 ⁹⁷	52.317 ³²¹	94.96 ¹⁰⁹	18.471 ¹⁸³	57.02 ⁶⁴
Okt. 7	57.815 ¹⁶⁰	67.40 ⁷	45.51 ⁶³	59.41 ⁴⁶	51.996 ³³²	96.05 ⁵⁹	18.288 ¹⁹⁰	57.66 ⁴⁶
17	57.655 ¹⁵⁷	67.33 ²⁹	44.88 ⁶⁴	59.87 ⁸	51.664 ³³²	96.64 ⁷	18.098 ¹⁸⁸	58.12 ²⁵
27	57.498 ¹⁴⁵	67.04 ⁵¹	44.24 ⁶⁰	59.79 ⁶²	51.332 ³²¹	96.71 ⁴⁶	17.910 ¹⁷³	58.37 ³
Nov. 6	57.353 ¹²⁴	66.53 ⁷²	43.64 ⁵⁵	59.17 ¹¹⁵	51.011 ²⁹⁸	96.25 ⁹⁹	17.737 ¹⁴⁸	58.40 ¹⁹
16	57.229 ⁹⁷	65.81 ⁹²	43.09 ⁴⁶	58.02 ¹⁶⁴	50.713 ²⁶⁵	95.26 ¹⁵¹	17.589 ¹¹⁴	58.21 ³⁹
26	57.132 ⁶⁴	64.89 ¹¹⁰	42.63 ³⁵	56.38 ²⁰⁸	50.448 ²²³	93.75 ¹⁹⁸	17.475 ⁷⁴	57.82 ⁵⁸
Dez. 6	57.068 ²⁹	63.79 ¹²⁶	42.28 ²³	54.30 ²⁴⁴	50.225 ¹⁷⁴	91.77 ²⁴²	17.401 ²⁸	57.24 ⁷⁵
16	57.039 ⁷	62.53 ¹³⁸	42.05 ¹⁰	51.86 ²⁷³	50.051 ¹¹⁸	89.35 ²⁷⁸	17.373 ¹⁹	56.49 ⁸⁸
26	57.046 ⁴⁶	61.15 ¹⁴⁵	41.95 ⁴	49.13 ²⁹³	49.933 ⁵⁸	86.57 ³⁰⁵	17.392 ⁶⁶	55.61 ¹⁰⁰
36	57.092	59.70	41.99	46.20	49.875	83.52	17.458	54.61
Mittl. Ort	55.427	59.56	38.48	42.43	50.780	78.24	14.869	52.05
sec δ , tg δ	1.006	+0.109	3.439	−3.290	1.634	+1.292	1.228	−0.712
a, a'	+2.9	+9.4	+6.9	+9.5	+1.6	+9.6	+3.9	+9.7
b, b'	0.00	+0.88	−0.10	+0.88	+0.04	+0.88	−0.02	+0.88

Tag	752) γ Sagittae		754) δ Pavonis		756) θ Aquilae		759) α Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	19 ^h 55 ^m	+19° 17'	20 ^h 1 ^m	—66° 21'	20 ^h 7 ^m	—1° 1'	20 ^h 11 ^m	+77° 29'
Jan. I	39.558 ⁵⁰	65.87 ²¹³	55.32 ¹⁰	52.32 ²⁶⁷	43.146 ⁶⁰	48.05 ¹⁰⁴	7.83 ³⁹	75.65 ³¹³
II	39.608 ⁸⁹	63.74 ²¹⁵	55.42 ²⁰	49.65 ²⁷⁶	43.206 ⁹⁵	49.09 ¹⁰¹	7.44 ²⁰	72.52 ³³²
21	39.697 ¹²⁵	61.59 ²⁰⁸	55.62 ²⁸	46.89 ²⁷⁶	43.301 ¹²⁸	50.10 ⁹³	7.24 ¹	69.20 ³³⁹
31	39.822 ¹⁵⁹	59.51 ¹⁹³	55.90 ³⁷	44.13 ²⁷¹	43.429 ¹⁵⁹	51.03 ⁸¹	7.23 ¹⁹	65.81 ³³⁴
Feb. 10	39.981 ¹⁹¹	57.58 ¹⁶⁹	56.27 ⁴⁵	41.42 ²⁵⁹	43.588 ¹⁸⁷	51.84 ⁶³	7.42 ³⁷	62.47 ³¹⁴
20	40.172 ²²⁰	55.89 ¹³⁶	56.72 ⁵¹	38.83 ²⁴²	43.775 ²¹⁴	52.47 ⁴¹	7.79 ⁵⁵	59.33 ²⁸³
März 2	40.392 ²⁴⁵	54.53 ⁹⁹	57.23 ⁵⁷	36.41 ²²⁰	43.989 ²³⁷	52.88 ¹⁶	8.34 ⁷⁰	56.50 ²⁴⁰
12	40.637 ²⁶⁸	53.54 ⁵⁷	57.80 ⁶²	34.21 ¹⁹³	44.226 ²⁵⁹	53.04 ¹²	9.04 ⁸²	54.10 ¹⁹⁰
22	40.905 ²⁸⁶	52.97 ¹¹	58.42 ⁶⁶	32.28 ¹⁶²	44.485 ²⁷⁷	52.92 ⁴²	9.86 ⁹²	52.20 ¹³¹
Apr. I	41.191 ³⁰⁰	52.86 ³⁵	59.08 ⁶⁹	30.65 ¹³¹	44.762 ²⁹²	52.50 ⁷⁰	10.78 ⁹⁸	50.89 ⁶⁸
II	41.491 ³⁰⁹	53.21 ⁸⁰	59.77 ⁷⁰	29.34 ⁹⁵	45.054 ³⁰³	51.80 ⁹⁷	11.76 ¹⁰²	50.21 ⁴
21	41.800 ³¹²	54.01 ¹²²	60.47 ⁷¹	28.39 ⁵⁸	45.357 ³⁰⁹	50.83 ¹²¹	12.78 ¹⁰¹	50.17 ⁶⁰
Mai I	42.112 ³⁰⁹	55.23 ¹⁶⁰	61.18 ⁷⁰	27.81 ¹⁸	45.666 ³¹⁰	49.62 ¹⁴¹	13.79 ⁹⁷	50.77 ¹²⁰
II	42.421 ³⁰⁰	56.83 ¹⁹²	61.88 ⁶⁸	27.63 ²¹	45.976 ³⁰⁴	48.21 ¹⁵⁷	14.76 ⁹⁰	51.97 ¹⁷⁷
21	42.721 ²⁸⁴	58.75 ²¹⁸	62.56 ⁶⁵	27.84 ⁶⁰	46.280 ²⁹³	46.64 ¹⁶⁷	15.66 ⁸¹	53.74 ²²⁷
31	43.005 ²⁶¹	60.93 ²³⁷	63.21 ⁶⁰	28.44 ⁹⁸	46.573 ²⁷⁵	44.97 ¹⁷²	16.47 ⁶⁹	56.01 ²⁶⁹
Juni 10	43.266 ²³³	63.30 ²⁴⁹	63.81 ⁵⁴	29.42 ¹³⁴	46.848 ²⁵⁰	43.25 ¹⁷²	17.16 ⁵⁶	58.70 ³⁰⁵
20	43.499 ¹⁹⁸	65.79 ²⁵⁴	64.35 ⁴⁷	30.76 ¹⁶⁵	47.098 ²¹⁹	41.53 ¹⁶⁸	17.72 ⁴⁰	61.75 ³³²
30	43.697 ¹⁵⁹	68.33 ²⁵³	64.82 ³⁸	32.41 ¹⁹³	47.317 ¹⁸³	39.85 ¹⁵⁹	18.12 ²³	65.07 ³⁴⁹
Juli 10	43.856 ¹¹⁶	70.86 ²⁴⁵	65.20 ²⁸	34.34 ²¹⁵	47.500 ¹⁴³	38.26 ¹⁴⁷	18.35 ⁶	68.56 ³⁵⁸
20	43.972 ⁷¹	73.31 ²³³	65.48 ¹⁹	36.49 ²²⁹	47.643 ⁹⁹	36.79 ¹³¹	18.41 ¹⁰	72.14 ³⁶⁰
29	44.043 ²⁵	75.64 ²¹⁵	65.67 ⁸	38.78 ²³⁷	47.742 ⁵⁵	35.48 ¹¹⁴	18.31 ²⁷	75.74 ³⁵²
Aug. 8	44.068 ²⁰	77.79 ¹⁹³	65.75 ³	41.15 ²³⁶	47.797 ¹⁰	34.34 ⁹⁶	18.04 ⁴³	79.26 ³³⁸
18	44.048 ⁶²	79.72 ¹⁶⁹	65.72 ¹²	43.51 ²²⁷	47.807 ³¹	33.38 ⁷⁷	17.61 ⁵⁹	82.64 ³¹⁶
28	43.986 ⁹⁹	81.41 ¹⁴¹	65.60 ²²	45.78 ²⁰⁹	47.776 ⁷⁰	32.61 ⁵⁸	17.02 ⁷²	85.80 ²⁸⁷
Sept. 7	43.887 ¹³¹	82.82 ¹¹¹	65.38 ³⁰	47.87 ¹⁸²	47.706 ¹⁰²	32.03 ³⁹	16.30 ⁸³	88.67 ²⁵²
17	43.756 ¹⁵⁶	83.93 ⁸⁰	65.08 ³⁶	49.69 ¹⁴⁸	47.604 ¹²⁷	31.64 ²¹	15.47 ⁹⁴	91.19 ²¹³
27	43.600 ¹⁷¹	84.73 ⁴⁷	64.72 ⁴¹	51.17 ¹⁰⁷	47.477 ¹⁴⁵	31.43 ⁴	14.53 ¹⁰¹	93.32 ¹⁶⁷
Okt. 7	43.429 ¹⁷⁷	85.20 ¹⁴	64.31 ⁴³	52.24 ⁶²	47.332 ¹⁵²	31.39 ¹²	13.52 ¹⁰⁷	94.99 ¹¹⁷
17	43.252 ¹⁷⁵	85.34 ²⁰	63.88 ⁴⁴	52.86 ¹⁴	47.180 ¹⁵¹	31.51 ²⁷	12.45 ¹⁰⁹	96.16 ⁶⁵
27	43.077 ¹⁶⁴	85.14 ⁵³	63.44 ⁴²	53.00 ³⁶	47.029 ¹⁴²	31.78 ⁴²	11.36 ¹⁰⁹	96.81 ⁹
Nov. 6	42.913 ¹⁴⁴	84.61 ⁸⁶	63.02 ³⁷	52.64 ⁸⁶	46.887 ¹²³	32.20 ⁵⁵	10.27 ¹⁰⁶	96.90 ⁴⁸
16	42.769 ¹¹⁸	83.75 ¹¹⁷	62.65 ³²	51.78 ¹³²	46.764 ⁹⁸	32.75 ⁶⁸	9.21 ¹⁰⁰	96.42 ¹⁰⁵
26	42.651 ⁸⁶	82.58 ¹⁴⁶	62.33 ²⁴	50.46 ¹⁷⁴	46.666 ⁶⁸	33.43 ⁸⁰	8.21 ⁹¹	95.37 ¹⁶⁰
Dez. 6	42.565 ⁵⁰	81.12 ¹⁷²	62.09 ¹⁵	48.72 ²¹⁰	46.598 ³⁴	34.23 ⁸⁹	7.30 ⁷⁹	93.77 ²¹¹
16	42.515 ¹²	79.40 ¹⁹¹	61.94 ⁶	46.62 ²³⁹	46.564 ¹	35.12 ⁹⁶	6.51 ⁶⁵	91.66 ²⁵⁶
26	42.503 ²⁷	77.49 ²⁰⁶	61.88 ⁴	44.23 ²⁶⁰	46.565 ³⁹	36.08 ¹⁰¹	5.86 ⁵⁰	89.10 ²⁹²
36	42.530	75.43	61.92	41.63	46.604	37.09	5.36	86.18
Mittl. Ort	41.282	73.04	58.45	36.99	44.716	38.53	14.71	75.93
sec δ , tg δ	1.060	+0.350	2.494	—2.285	1.000	—0.018	4.622	+4.512
a, a'	+2.7	+9.7	+5.7	+10.2	+3.1	+10.6	—2.0	+10.9
b, b'	+0.01	+0.88	—0.08	+ 0.86	0.00	+ 0.85	+0.16	+ 0.84

Tag	757) α^1 Cygni sq.		760) α^1 Vulpeculae		761) α^2 Capricorni		765) γ Cygni	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	20 ^h 11 ^m	+46° 31'	20 ^h 13 ^m	+24° 27'	20 ^h 14 ^m	-12° 45'	20 ^h 19 ^m	+40° 1'
Jan. 1	25.212 ²³	49.46 ²⁹⁸	48.156 ²⁵	21.21 ²²⁷	12.123 ⁶²	46.73 ³³	42.995 ¹³	62.64 ²⁷⁷
11	25.189 ³⁰	46.48 ³⁰⁹	48.181 ⁶⁵	18.94 ²³³	12.185 ⁹⁸	47.06 ²⁷	42.982 ³⁴	59.87 ²⁸⁸
21	25.219 ⁸⁵	43.39 ³⁰⁹	48.246 ¹⁰²	16.61 ²²⁸	12.283 ¹³¹	47.33 ¹⁹	43.016 ⁸¹	56.99 ²⁸⁸
31	25.304 ¹³⁸	40.30 ²⁹⁷	48.348 ¹³⁹	14.33 ²¹⁵	12.414 ¹⁶³	47.52 ⁹	43.097 ¹²⁷	54.11 ²⁷⁷
Feb. 10	25.442 ¹⁸⁸	37.33 ²⁷³	48.487 ¹⁷³	12.18 ¹⁹²	12.577 ¹⁹²	47.61 ⁵	43.224 ¹⁷²	51.34 ²⁵⁵
20	25.630 ²³⁵	34.60 ²³⁸	48.660 ²⁰⁶	10.26 ¹⁶¹	12.769 ²¹⁹	47.56 ²¹	43.396 ²¹⁴	48.79 ²²¹
März 2	25.865 ²⁷⁷	32.22 ¹⁹⁴	48.866 ²³⁵	8.65 ¹²³	12.988 ²⁴³	47.35 ³⁹	43.610 ²⁵²	46.58 ¹⁷⁹
12	26.142 ³¹⁴	30.28 ¹⁴¹	49.101 ²⁶¹	7.42 ⁷⁸	13.231 ²⁶⁵	46.96 ⁵⁷	43.862 ²⁸⁵	44.79 ¹³⁰
22	26.456 ³⁴⁴	28.87 ⁸⁴	49.362 ²⁸³	6.64 ³¹	13.496 ²⁸⁴	46.39 ⁷⁶	44.147 ³¹⁴	43.49 ⁷⁵
Apr. 1	26.800 ³⁶⁶	28.03 ²³	49.645 ³⁰¹	6.33 ¹⁸	13.780 ³⁰⁰	45.63 ⁹³	44.461 ³³⁵	42.74 ¹⁸
11	27.166 ³⁸⁰	27.80 ³⁷	49.946 ³¹³	6.51 ⁶⁷	14.080 ³¹²	44.70 ¹⁰⁹	44.796 ³⁵⁰	42.56 ⁴⁰
21	27.546 ³⁸⁴	28.17 ⁹⁷	50.259 ³²⁰	7.18 ¹¹⁴	14.392 ³²⁰	43.61 ¹²²	45.146 ³⁵⁷	42.96 ⁹⁷
Mai 1	27.930 ³⁷⁹	29.14 ¹⁵²	50.579 ³¹⁹	8.32 ¹⁵⁵	14.712 ³²²	42.39 ¹³⁰	45.503 ³⁵⁶	43.93 ¹⁴⁹
11	28.309 ³⁶⁵	30.66 ²⁰²	50.898 ³¹²	9.87 ¹⁹³	15.034 ³¹⁸	41.09 ¹³⁵	45.859 ³⁴⁶	45.42 ¹⁹⁶
21	28.674 ³⁴²	32.68 ²⁴⁶	51.210 ²⁹⁸	11.80 ²²⁴	15.352 ³⁰⁸	39.74 ¹³⁵	46.205 ³²⁷	47.38 ²³⁷
31	29.016 ³⁰⁹	35.14 ²⁸¹	51.508 ²⁷⁶	14.04 ²⁴⁷	15.660 ²⁹¹	38.39 ¹³¹	46.532 ³⁰⁰	49.75 ²⁷¹
Juni 10	29.325 ²⁶⁹	37.95 ³⁰⁸	51.784 ²⁴⁸	16.51 ²⁶⁴	15.951 ²⁶⁶	37.08 ¹²³	46.832 ²⁶⁶	52.46 ²⁹⁷
20	29.594 ²²²	41.03 ³²⁷	52.032 ²¹⁴	19.15 ²⁷³	16.217 ²³⁵	35.85 ¹¹²	47.098 ²²⁵	55.43 ³¹⁴
30	29.816 ¹⁶⁹	44.30 ³³⁸	52.246 ¹⁷⁴	21.88 ²⁷⁵	16.452 ²⁰⁰	34.73 ⁹⁸	47.323 ¹⁷⁹	58.57 ³²⁴
Juli 10	29.985 ¹¹³	47.68 ³⁴⁰	52.420 ¹³⁰	24.63 ²⁷¹	16.652 ¹⁵⁹	33.75 ⁸³	47.502 ¹²⁹	61.81 ³²⁵
20	30.098 ⁵⁵	51.08 ³³⁴	52.550 ⁸⁴	27.34 ²⁶¹	16.811 ¹¹⁵	32.92 ⁶⁶	47.631 ⁷⁵	65.06 ³¹⁹
29	30.153 ⁴	54.42 ³²¹	52.634 ³⁷	29.95 ²⁴⁵	16.926 ⁶⁹	32.26 ⁴⁸	47.706 ²¹	68.25 ³⁰⁶
Aug. 8	30.149 ⁶¹	57.63 ³⁰¹	52.671 ⁹	32.40 ²²⁴	16.995 ²³	31.78 ³²	47.727 ³²	71.31 ²⁸⁶
18	30.088 ¹¹⁶	60.64 ²⁷⁴	52.662 ⁵³	34.64 ²⁰⁰	17.018 ²¹	31.46 ¹⁶	47.695 ⁸²	74.17 ²⁶²
28	29.972 ¹⁶⁴	63.38 ²⁴³	52.609 ⁹⁴	36.64 ¹⁷¹	16.997 ⁶²	31.30 ³	47.613 ¹²⁸	76.79 ²³¹
Sept. 7	29.808 ²⁰⁶	65.81 ²⁰⁶	52.515 ¹²⁷	38.35 ¹⁴⁰	16.935 ⁹⁶	31.27 ⁹	47.485 ¹⁶⁸	79.10 ¹⁹⁶
17	29.602 ²⁴⁰	67.87 ¹⁶⁵	52.388 ¹⁵⁵	39.75 ¹⁰⁷	16.839 ¹²³	31.36 ¹⁸	47.317 ¹⁹⁹	81.06 ¹⁵⁷
27	29.362 ²⁶⁴	69.52 ¹²¹	52.233 ¹⁷⁴	40.82 ⁷²	16.716 ¹⁴²	31.54 ²⁶	47.118 ²²²	82.63 ¹¹⁵
Okt. 7	29.098 ²⁷⁷	70.73 ⁷³	52.059 ¹⁸³	41.54 ³⁵	16.574 ¹⁵²	31.80 ³⁰	46.896 ²³⁵	83.78 ⁷¹
17	28.821 ²⁸⁰	71.46 ²³	51.876 ¹⁸⁴	41.89 ²	16.422 ¹⁵²	32.10 ³³	46.661 ²⁴⁰	84.49 ²⁴
27	28.541 ²⁷³	71.69 ²⁷	51.692 ¹⁷⁶	41.87 ³⁹	16.270 ¹⁴²	32.43 ³⁶	46.421 ²³³	84.73 ²³
Nov. 6	28.268 ²⁵⁶	71.42 ⁷⁹	51.516 ¹⁶⁰	41.48 ⁷⁷	16.128 ¹²⁴	32.79 ³⁷	46.188 ²¹⁸	84.50 ⁷²
16	28.012 ²²⁹	70.63 ¹²⁹	51.356 ¹³⁶	40.71 ¹¹³	16.004 ⁹⁹	33.16 ³⁷	45.970 ¹⁹⁴	83.78 ¹¹⁸
26	27.783 ¹⁹⁴	69.34 ¹⁷⁶	51.220 ¹⁰⁷	39.58 ¹⁴⁵	15.905 ⁶⁹	33.53 ³⁸	45.776 ¹⁶³	82.60 ¹⁶²
Dez. 6	27.589 ¹⁵²	67.58 ²¹⁹	51.113 ⁷⁴	38.13 ¹⁷⁵	15.836 ³⁴	33.91 ³⁷	45.613 ¹²⁷	80.98 ²⁰²
16	27.437 ¹⁰⁶	65.39 ²⁵⁵	51.039 ³⁷	36.38 ²⁰⁰	15.802 ³	34.28 ³⁵	45.486 ⁸⁵	78.96 ²³⁷
26	27.331 ⁵⁴	62.84 ²⁸²	51.002 ²	34.38 ²¹⁷	15.805 ³⁹	34.63 ³³	45.401 ⁴¹	76.59 ²⁶³
36	27.277	60.02	51.004	32.21	15.844	34.96	45.360	73.96
Mittl. Ort	27.529	52.45	49.920	26.94	13.670	35.61	45.079	65.88
sec δ , tg δ	1.454	+1.055	1.099	+0.455	1.025	-0.226	1.306	+0.840
a, a'	+1.9	+10.9	+2.6	+11.1	+3.3	+11.1	+2.2	+11.5
b, b'	+0.04	+0.84	+0.02	+0.83	-0.01	+0.83	+0.03	+0.82

Tag	764) α Pavonis		767) δ Cephei		768) ε Delphini		770) γ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	20 ^h 20 ^m	—56° 57'	20 ^h 28 ^m	+62° 45'	20 ^h 29 ^m	+11° 3'	20 ^h 32 ^m	+74° 42'
Jan. I	9.780 ⁶¹	43.84 ²²⁴	22.26 ¹⁴	42.42 ³⁰⁷	53.408 ²⁸	56.17 ¹⁶⁰	20.70 ³⁶	67.90 ²⁹⁹
II	9.841 ¹²⁹	41.60 ²³⁷	22.12 ⁶	39.35 ³²⁶	53.436 ⁶²	54.57 ¹⁶²	20.34 ²¹	64.91 ³²⁴
21	9.970 ¹⁹³	39.23 ²⁴³	22.06 ²	36.09 ³³⁴	53.498 ⁹⁷	52.95 ¹⁵⁶	20.13 ⁶	61.67 ³³⁶
31	10.163 ²⁵⁴	36.80 ²⁴⁵	22.08 ¹¹	32.75 ³²⁹	53.595 ¹²⁹	51.39 ¹⁴⁴	20.07 ¹⁰	58.31 ³³⁶
Feb. 10	10.417 ³⁰⁹	34.35 ²⁴¹	22.19 ²⁰	29.46 ³¹¹	53.724 ¹⁶⁰	49.95 ¹²⁵	20.17 ²⁵	54.95 ³²¹
20	10.726 ³⁵⁹	31.94 ²³²	22.39 ²⁷	26.35 ²⁸¹	53.884 ¹⁹⁰	48.70 ⁹⁹	20.42 ³⁹	51.74 ²⁹⁵
März 2	11.085 ⁴⁰⁴	29.62 ²¹⁹	22.66 ³⁴	23.54 ²³⁹	54.074 ²¹⁷	47.71 ⁶⁸	20.81 ⁵³	48.79 ²⁵⁶
12	11.489 ⁴⁴³	27.43 ²⁰¹	23.00 ⁴¹	21.15 ¹⁸⁹	54.291 ²⁴³	47.03 ³³	21.34 ⁶⁴	46.23 ²⁰⁸
22	11.932 ⁴⁷⁷	25.42 ¹⁸⁰	23.41 ⁴⁶	19.26 ¹³¹	54.534 ²⁶⁴	46.70 ⁵	21.98 ⁷³	44.15 ¹⁵²
Apr. I	12.409 ⁵⁰²	23.62 ¹⁵⁶	23.87 ⁵⁰	17.95 ⁶⁹	54.798 ²⁸⁴	46.75 ⁴⁵	22.71 ⁸⁰	42.63 ⁹²
II	12.911 ⁵²¹	22.06 ¹²⁹	24.37 ⁵²	17.26 ⁵	55.082 ²⁹⁸	47.20 ⁸²	23.51 ⁸⁴	41.71 ²⁷
21	13.432 ⁵³³	20.77 ⁹⁸	24.89 ⁵³	17.21 ⁵⁹	55.380 ³⁰⁸	48.02 ¹¹⁸	24.35 ⁸⁵	41.44 ³⁷
Mai I	13.965 ⁵³⁴	19.79 ⁶⁶	25.42 ⁵²	17.80 ¹²⁰	55.688 ³¹¹	49.20 ¹⁵⁰	25.20 ⁸⁴	41.81 ⁹⁸
II	14.499 ⁵²⁶	19.13 ³¹	25.94 ⁵⁰	19.00 ¹⁷⁶	55.999 ³⁰⁹	50.70 ¹⁷⁶	26.04 ⁸⁰	42.79 ¹⁵⁷
21	15.025 ⁵⁰⁸	18.82 ⁴	26.44 ⁴⁷	20.76 ²²⁸	56.308 ²⁹⁹	52.46 ¹⁹⁸	26.84 ⁷³	44.36 ²¹⁰
31	15.533 ⁴⁷⁸	18.86 ³⁹	26.91 ⁴²	23.04 ²⁷¹	56.607 ²⁸²	54.44 ²¹³	27.57 ⁶⁴	46.46 ²⁵⁷
Juni 10	16.011 ⁴³⁷	19.25 ⁷⁴	27.33 ³⁶	25.75 ³⁰⁷	56.889 ²⁵⁹	56.57 ²²³	28.21 ⁵⁴	49.03 ²⁹⁵
20	16.448 ³⁸⁶	19.99 ¹⁰⁶	27.69 ²⁹	28.82 ³³⁴	57.148 ²²⁹	58.80 ²²⁶	28.75 ⁴²	51.98 ³²⁵
30	16.834 ³²⁵	21.05 ¹³⁶	27.98 ²²	32.16 ³⁵³	57.377 ¹⁹⁴	61.06 ²²²	29.17 ²⁹	55.23 ³⁴⁸
Juli 10	17.159 ²⁵⁷	22.41 ¹⁶⁰	28.20 ¹³	35.69 ³⁶²	57.571 ¹⁵⁴	63.28 ²¹⁵	29.46 ¹⁵	58.71 ³⁶¹
20	17.416 ¹⁸³	24.01 ¹⁷⁹	28.33 ⁵	39.31 ³⁶⁴	57.725 ¹¹¹	65.43 ²⁰³	29.61 ²	62.32 ³⁶⁶
29*)	17.599 ¹⁰⁴	25.80 ¹⁹⁴	28.38 ³	42.95 ³⁵⁷	57.836 ⁶⁷	67.46 ¹⁸⁶	29.63 ¹²	65.98 ³⁶³
Aug. 8	17.703 ²⁵	27.74 ²⁰⁰	28.35 ¹²	46.52 ³⁴²	57.903 ²²	69.32 ¹⁶⁶	29.51 ²⁶	69.61 ³⁵²
18	17.728 ⁵²	29.74 ¹⁰⁸	28.23 ¹⁹	49.94 ³²¹	57.925 ²²	70.98 ¹⁴⁴	29.25 ³⁹	73.13 ³³³
28	17.676 ¹²⁴	31.72 ¹⁸⁹	28.04 ²⁶	53.15 ²⁹²	57.903 ⁶¹	72.42 ¹²⁰	28.86 ⁵¹	76.46 ³⁰⁸
Sept. 7	17.552 ¹⁸⁸	33.61 ¹⁷¹	27.78 ³³	56.07 ²⁵⁸	57.842 ⁹⁵	73.62 ⁹⁶	28.35 ⁶¹	79.54 ²⁷⁷
17	17.364 ²⁴⁰	35.32 ¹⁴⁷	27.45 ³⁸	58.65 ²¹⁷	57.747 ¹²³	74.58 ⁷⁰	27.74 ⁷⁰	82.31 ²³⁹
27	17.124 ²⁷⁸	36.79 ¹¹⁶	27.07 ⁴²	60.82 ¹⁷³	57.624 ¹⁴³	75.28 ⁴³	27.04 ⁷⁸	84.70 ¹⁹⁴
Okt. 7	16.846 ³⁰¹	37.95 ⁷⁹	26.65 ⁴⁴	62.55 ¹²³	57.481 ¹⁵⁴	75.71 ¹⁷	26.26 ⁸³	86.64 ¹⁴⁷
17	16.545 ³⁰⁷	38.74 ³⁸	26.21 ⁴⁶	63.78 ⁷⁰	57.327 ¹⁵⁷	75.88 ¹⁰	25.43 ⁸⁵	88.11 ⁹⁴
27	16.238 ²⁹⁷	39.12 ⁴	25.75 ⁴⁶	64.48 ¹⁵	57.170 ¹⁵¹	75.78 ³⁵	24.58 ⁸⁷	89.05 ³⁹
Nov. 6	15.941 ²⁷¹	39.08 ⁴⁷	25.29 ⁴⁵	64.63 ⁴²	57.019 ¹³⁷	75.43 ⁶⁰	23.71 ⁸⁵	89.44 ¹⁸
16	15.670 ²³⁰	38.61 ⁸⁹	24.84 ⁴²	64.21 ⁹⁸	56.882 ¹¹⁷	74.83 ⁸⁵	22.86 ⁸²	89.26 ⁷⁷
26	15.440 ¹⁷⁹	37.72 ¹²⁹	24.42 ³⁷	63.23 ¹⁵³	56.765 ⁹¹	73.98 ¹⁰⁷	22.04 ⁷⁵	88.49 ¹³⁴
Dez. 6	15.261 ¹¹⁸	36.43 ¹⁶³	24.05 ³²	61.70 ²⁰⁴	56.674 ⁶⁰	72.91 ¹²⁶	21.29 ⁶⁷	87.15 ¹⁸⁷
16	15.143 ⁵²	34.80 ¹⁹²	23.73 ²⁶	59.66 ²⁴⁹	56.614 ²⁷	71.65 ¹⁴²	20.62 ⁵⁶	85.28 ²³⁶
26	15.091 ¹⁷	32.88 ²¹⁴	23.47 ¹⁹	57.17 ²⁸⁶	56.587 ⁷	70.23 ¹⁵⁴	20.06 ⁴⁴	82.92 ²⁷⁷
36	15.108	30.74	23.28	54.31	56.594	68.69	19.62	80.15
Mittl. Ort	12.043	27.85	25.63	42.31	54.989	63.40	26.37	66.44
sec δ , tg δ	1.834	—1.537	2.185	+1.943	1.019	+0.196	3.794	+3.660
a, a'	+4.8	+11.5	+1.0	+12.1	+2.9	+12.2	—0.8	+12.4
b, b'	—0.06	+0.82	+0.08	+0.80	+0.01	+0.79	+0.15	+0.79

*) Bei Stern 767), 768) und 770) lies Juli 30

Tag	769) α Indi		771) β Delphini		773) ν Capricorni		774) α Delphini	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	20 ^h 32 ^m	—47° 31'	20 ^h 34 ^m	+14° 20'	20 ^h 36 ^m	—18° 22'	20 ^h 36 ^m	+15° 39'
Jan. I	41.373	76.75	17.194	67.96	5.970	70.19	24.377	56.89
II	41.420	75.01	17.215	66.22	6.013	70.15	24.394	55.10
21	41.519	73.13	17.270	64.45	6.092	70.03	24.446	53.27
31	41.669	71.15	17.360	62.72	6.206	69.80	24.532	51.48
Feb. 10	41.867	69.10	17.483	61.11	6.352	69.46	24.652	49.80
20	42.109	67.04	17.638	59.69	6.528	68.99	24.805	48.32
März 2	42.392	64.99	17.823	58.54	6.733	68.39	24.988	47.10
12	42.713	62.99	18.037	57.70	6.965	67.64	25.201	46.21
22	43.066	61.08	18.278	57.24	7.222	66.74	25.440	45.70
Apr. I	43.449	59.29	18.542	57.19	7.502	65.71	25.704	45.59
II	43.857	57.66	18.825	57.54	7.801	64.55	25.987	45.91
21	44.284	56.21	19.124	58.30	8.116	63.28	26.286	46.64
Mai I	44.724	54.98	19.434	59.44	8.443	61.95	26.596	47.77
11	45.169	54.00	19.747	60.93	8.775	60.59	26.910	49.25
21	45.611	53.29	20.058	62.72	9.107	59.23	27.222	51.05
31	46.042	52.88	20.359	64.76	9.432	57.93	27.525	53.10
Juni 10	46.452	52.78	20.644	66.97	9.742	56.71	27.812	55.35
20	46.832	52.98	20.906	69.30	10.031	55.61	28.075	57.72
30	47.172	53.50	21.138	71.68	10.290	54.66	28.308	60.15
Juli 10	47.464	54.30	21.335	74.06	10.515	53.89	28.506	62.58
20	47.702	55.36	21.492	76.38	10.700	53.31	28.664	64.96
30	47.879	56.64	21.605	78.57	10.840	52.92	28.778	67.23
Aug. 8	47.992	58.09	21.673	80.61	10.933	52.72	28.847	69.34
18	48.039	59.66	21.696	82.46	10.979	52.70	28.871	71.26
28	48.023	61.28	21.675	84.08	10.978	52.83	28.851	72.96
Sept. 7	47.947	62.87	21.615	85.46	10.934	53.08	28.791	74.40
17	47.817	64.38	21.520	86.57	10.852	53.44	28.696	75.58
27	47.643	65.73	21.396	87.40	10.739	53.86	28.572	76.47
Okt. 7	47.436	66.85	21.252	87.96	10.604	54.31	28.427	77.08
17	47.208	67.70	21.096	88.22	10.455	54.76	28.269	77.39
27	46.974	68.24	20.936	88.19	10.302	55.20	28.108	77.39
Nov. 6	46.746	68.43	20.781	87.88	10.155	55.59	27.951	77.10
16	46.537	68.27	20.639	87.29	10.022	55.92	27.807	76.51
26	46.359	67.75	20.516	86.42	9.912	56.19	27.682	75.64
Dez. 6	46.220	66.90	20.419	85.30	9.829	56.40	27.582	74.51
16	46.128	65.75	20.352	83.96	9.779	56.53	27.511	73.14
26	46.087	64.33	20.317	82.43	9.763	56.59	27.473	71.58
36	46.099	62.69	20.317	80.77	9.784	56.57	27.469	69.87
Mittl. Ort	43.210	60.90	18.795	74.48	7.455	58.07	25.986	63.11
sec δ , tg δ	1.481	—1.093	1.032	+0.256	1.054	—0.332	1.039	+0.280
α , α'	+4.2	+12.4	+2.8	+12.5	+3.4	+12.6	+2.8	+12.6
b , b'	—0.05	+0.79	+0.01	+0.78	—0.01	+0.78	+0.01	+0.78

Tag	775) β Pavonis		777) α Cygni		780) ε Cygni		783) γ Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	20 ^h 38 ^m	—66° 26'	20 ^h 39 ^m	+45° 1'	20 ^h 43 ^m	+33° 42'	20 ^h 43 ^m	+61° 33'
Jan. I	43.08	88.35	2.528	57.40	23.250	36.57	50.14	74.37
II	43.08	85.68	2.477	54.63	23.229	34.13	49.98	71.46
21	43.17	82.85	2.475	51.70	23.249	31.57	49.90	68.31
31	43.36	79.91	2.525	48.72	23.311	28.99	49.90	65.05
Feb. 10	43.63	76.95	2.626	45.81	23.414	26.49	49.98	61.81
20	43.98	74.03	2.776	43.08	23.557	24.18	50.14	58.71
März 2	44.41	71.22	2.975	40.65	23.739	22.15	50.38	55.87
12	44.90	68.57	3.219	38.61	23.959	20.49	50.69	53.42
22	45.45	66.14	3.503	37.05	24.212	19.28	51.06	51.45
Apr. I	46.05	63.97	3.822	36.03	24.495	18.57	51.49	50.03
11	46.69	62.10	4.168	35.59	24.802	18.38	51.96	49.22
21	47.36	60.57	4.535	35.74	25.129	18.74	52.46	49.04
Mai I	48.06	59.42	4.913	36.48	25.467	19.62	52.97	49.49
11	48.76	58.66	5.293	37.78	25.809	20.99	53.49	50.55
21	49.45	58.31	5.666	39.59	26.148	22.82	53.99	52.20
31	50.12	58.38	6.022	41.85	26.476	25.04	54.46	54.36
Juni 10	50.76	58.88	6.352	44.50	26.783	27.58	54.89	56.98
20	51.34	59.78	6.647	47.45	27.063	30.37	55.26	59.98
30	51.86	61.06	6.900	50.63	27.308	33.34	55.57	63.28
Juli 10	52.30	62.69	7.105	53.95	27.512	36.41	55.82	66.79
20	52.66	64.60	7.256	57.33	27.671	39.50	55.99	70.42
30	52.92	66.75	7.352	60.70	27.781	42.55	56.07	74.09
Aug. 8	53.08	69.06	7.390	63.98	27.841	45.48	56.08	77.73
18	53.13	71.45	7.371	67.09	27.851	48.24	56.00	81.25
28	53.07	73.82	7.297	69.98	27.812	50.77	55.85	84.57
Sept. 7	52.91	76.10	7.173	72.59	27.729	53.03	55.63	87.63
17	52.67	78.18	7.005	74.87	27.606	54.98	55.35	90.37
27	52.35	79.99	6.800	76.77	27.451	56.57	55.01	92.73
Okt. 7	51.97	81.44	6.567	78.24	27.271	57.79	54.63	94.66
17	51.55	82.46	6.316	79.27	27.075	58.60	54.22	96.10
27	51.11	83.02	6.056	79.81	26.872	58.99	53.79	97.03
Nov. 6	50.67	83.07	5.797	79.86	26.671	58.94	53.36	97.41
16	50.26	82.60	5.550	79.40	26.480	58.45	52.94	97.22
26	49.89	81.63	5.323	78.44	26.308	57.53	52.54	96.47
Dez. 6	49.58	80.19	5.122	77.00	26.161	56.21	52.17	95.17
16	49.35	78.31	4.957	75.11	26.044	54.50	51.85	93.34
26	49.20	76.07	4.833	72.83	25.961	52.47	51.59	91.04
36	49.14	73.54	4.754	70.24	25.917	50.18	51.39	88.35
Mittl. Ort	45.78	70.79	4.745	58.64	25.128	39.31	53.35	73.10
sec δ , tg δ	2.503	—2.295	1.415	+1.001	1.202	+0.667	2.100	+1.847
a, a'	+5.4	+12.8	+2.0	+12.8	+2.4	+13.1	+1.2	+13.1
b, b'	—0.10	+0.77	+0.04	+0.77	+0.03	+0.76	+0.08	+0.76

Tag	781) ε Aquarii		784) λ Cygni		785) β Indi		786) 32 Vulpeculae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	20 ^h 43 ^m	−9° 44'	20 ^h 44 ^m	+36° 13'	20 ^h 49 ^m	−58° 42'	20 ^h 51 ^m	+27° 47'
Jan. I	55.082	68.59	41.262	68.78	23.669	74.94	35.376	36.18
II	55.114	69.04	41.233	66.27	23.672	72.66	35.360	33.98
21	55.180	69.43	41.245	63.62	23.745	70.19	35.381	31.67
31	55.279	69.72	41.301	60.94	23.885	67.58	35.439	29.35
Feb. 10	55.409	69.89	41.400	58.33	24.089	64.91	35.536	27.11
20	55.569	69.91	41.541	55.91	24.354	62.23	35.670	25.04
März 2	55.757	69.76	41.724	53.77	24.676	59.60	35.840	23.24
12	55.972	69.40	41.944	52.01	25.050	57.07	36.045	21.79
22	56.213	68.83	42.200	50.70	25.470	54.68	36.282	20.76
Apr. I	56.477	68.05	42.487	49.89	25.932	52.49	36.548	20.19
11	56.761	67.06	42.800	49.62	26.428	50.53	36.839	20.12
21	57.062	65.88	43.132	49.90	26.952	48.85	37.149	20.54
Mai I	57.376	64.54	43.477	50.72	27.496	47.48	37.473	21.45
11	57.696	63.08	43.825	52.06	28.049	46.45	37.803	22.82
21	58.016	61.55	44.170	53.87	28.602	45.78	38.132	24.60
31	58.331	59.99	44.503	56.08	29.144	45.49	38.452	26.74
Juni 10	58.632	58.44	44.815	58.64	29.662	45.60	38.755	29.17
20	58.913	56.94	45.098	61.46	30.144	46.09	39.034	31.82
30	59.167	55.55	45.346	64.47	30.580	46.95	39.282	34.62
Juli 10	59.388	54.30	45.552	67.59	30.958	48.16	39.492	37.50
20	59.570	53.20	45.711	70.75	31.269	49.67	39.660	40.39
30	59.710	52.28	45.820	73.87	31.504	51.44	39.782	43.22
Aug. 8	59.805	51.55	45.878	76.89	31.659	53.40	39.857	45.93
18	59.854	51.01	45.885	79.74	31.732	55.48	39.883	48.47
28	59.858	50.65	45.842	82.37	31.722	57.61	39.863	50.79
Sept. 7	59.821	50.46	45.753	84.72	31.633	59.69	39.800	52.85
17	59.747	50.43	45.623	86.76	31.473	61.65	39.698	54.61
27	59.643	50.52	45.460	88.44	31.251	63.40	39.564	56.04
Okt. 7	59.516	50.72	45.272	89.73	30.981	64.86	39.405	57.13
17	59.376	51.01	45.067	90.61	30.677	65.98	39.231	57.85
27	59.230	51.37	44.854	91.04	30.357	66.68	39.049	58.18
Nov. 6	59.089	51.77	44.642	91.03	30.038	66.94	38.868	58.12
16	58.960	52.21	44.414	90.57	29.735	66.74	38.697	57.66
26	58.851	52.68	44.258	89.66	29.464	66.09	38.542	56.82
Dez. 6	58.767	53.16	44.099	88.32	29.238	65.00	38.410	55.61
16	58.713	53.64	43.971	86.58	29.067	63.51	38.305	54.07
26	58.691	54.12	43.879	84.50	28.959	61.66	38.232	52.23
36	58.702	54.57	43.826	82.13	28.919	59.51	38.194	50.16
Mittl. Ort see 2, 4g 2	56.531	57.91	43.197	71.02	25.753	57.35	37.115	39.51
a, a'	1.015	−0.172	1.240	+0.733	1.926	−1.646	1.130	+0.527
b, b'	+3.2	+13.1	+2.3	+13.2	+4.7	+13.5	+2.6	+13.6
	−0.01	+0.75	+0.03	+0.75	−0.07	+0.74	+0.02	+0.73

Tag	788) v Cygni		790) ζ Microscopii		793) 61 Cygni pr. 1)		794) v Aquarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	20 ^h 54 ^m	+40° 53'	20 ^h 58 ^m	−38° 53'	21 ^h 3 ^m	+38° 24'	21 ^h 5 ^m	−11° 38'
Jan. I	33.949 ⁵³	61.49 ²⁵⁶	32.191 ¹⁷	83.80 ¹²²	46.172 ⁴¹	32.36 ²³⁶	48.899 ¹⁴	78.40 ³¹
II	33.896 ¹⁰	58.93 ²⁷⁴	32.208 ⁶¹	82.58 ¹⁴⁰	46.131 ¹	30.00 ²⁵³	48.913 ⁴⁵	78.71 ²²
21	33.886 ³⁷	56.19 ²⁸⁰	32.269 ¹⁰³	81.18 ¹⁵⁴	46.132 ⁴⁴	27.47 ²⁶⁰	48.958 ⁷⁷	78.93 ¹²
31	33.923 ⁸⁴	53.39 ²⁷⁶	32.372 ¹⁴⁴	79.64 ¹⁶⁶	46.176 ⁸⁸	24.87 ²⁵⁵	49.035 ¹⁰⁹	79.05 ⁰
Feb. 10	34.007 ¹³⁰	50.63 ²⁶⁰	32.516 ¹⁸²	77.98 ¹⁷⁵	46.264 ¹³²	22.32 ²⁴⁰	49.144 ¹⁴⁰	79.05 ¹⁶
20	34.137 ¹⁷⁵	48.03 ²³³	32.698 ²¹⁹	76.23 ¹⁸¹	46.396 ¹⁷⁶	19.92 ²¹⁴	49.284 ¹⁶⁹	78.89 ³⁴
März 2	34.312 ²¹⁸	45.70 ¹⁹⁷	32.917 ²⁵⁴	74.42 ¹⁸⁴	46.572 ²¹⁷	17.78 ¹⁷⁹	49.453 ¹⁹⁸	78.55 ⁵³
12	34.530 ²⁵⁸	43.73 ¹⁵²	33.171 ²⁸⁶	72.58 ¹⁸⁵	46.789 ²⁵⁶	15.99 ¹³⁶	49.651 ²²⁵	78.02 ⁷³
22	34.788 ²⁹³	42.21 ¹⁰¹	33.457 ³¹⁶	70.73 ¹⁸³	47.045 ²⁹¹	14.63 ⁸⁶	49.876 ²⁵¹	77.29 ⁹⁴
Apr. I	35.081 ³²²	41.20 ⁴⁶	33.773 ³⁴²	68.90 ¹⁷⁷	47.336 ³²¹	13.77 ³³	50.127 ²⁷⁵	76.35 ¹¹²
11	35.403 ³⁴⁵	40.74 ¹⁰	34.115 ³⁶⁵	67.13 ¹⁶⁷	47.657 ³⁴³	13.44 ²³	50.402 ²⁹⁵	75.23 ¹³⁰
21	35.748 ³⁵⁹	40.84 ⁶⁷	34.480 ³⁸¹	65.46 ¹⁵⁴	48.000 ³⁵⁹	13.67 ⁷⁷	50.697 ³¹¹	73.93 ¹⁴⁴
Mai I	36.107 ³⁶⁵	41.51 ¹²²	34.861 ³⁹²	63.92 ¹³⁸	48.359 ³⁶⁷	14.44 ¹³¹	51.008 ³²¹	72.49 ¹⁵⁴
11	36.472 ³⁶³	42.73 ¹⁷¹	35.253 ³⁹⁶	62.54 ¹¹⁷	48.726 ³⁶⁶	15.75 ¹⁷⁹	51.329 ³²⁵	70.95 ¹⁶⁰
21	36.835 ³⁵¹	44.44 ²¹⁶	35.649 ³⁹¹	61.37 ⁹³	49.092 ³⁵⁶	17.54 ²²²	51.654 ³²³	69.35 ¹⁶³
31	37.186 ³³⁰	46.60 ²⁵³	36.040 ³⁷⁸	60.44 ⁶⁷	49.448 ³³⁷	19.76 ²⁵⁹	51.977 ³¹³	67.72 ¹⁵⁹
Juni 10	37.516 ³⁰⁰	49.13 ²⁸⁴	36.418 ³⁵⁵	59.77 ⁴⁰	49.785 ³¹⁰	22.35 ²⁸⁹	52.290 ²⁹⁵	66.13 ¹⁵¹
20	37.816 ²⁶³	51.97 ³⁰⁷	36.773 ³²⁵	59.37 ¹⁰	50.095 ²⁷⁵	25.24 ³¹¹	52.585 ²⁷¹	64.62 ¹⁴⁰
30	38.079 ²²⁰	55.04 ³²²	37.098 ²⁸⁷	59.27 ¹⁹	50.370 ²³⁴	28.35 ³²⁵	52.856 ²⁴⁰	63.22 ¹²⁵
Juli 10	38.299 ¹⁷¹	58.26 ³²⁸	37.385 ²⁴¹	59.46 ⁴⁶	50.604 ¹⁸⁷	31.60 ³³¹	53.096 ²⁰³	61.97 ¹⁰⁷
20	38.470 ¹¹⁹	61.54 ³²⁸	37.626 ¹⁸⁹	59.92 ⁷²	50.791 ¹³⁷	34.91 ³³⁰	53.299 ¹⁶²	60.90 ⁸⁸
30	38.589 ⁶⁵	64.82 ³²⁰	37.815 ¹³⁵	60.64 ⁹⁴	50.928 ⁸⁵	38.21 ³²²	53.461 ¹¹⁷	60.02 ⁶⁷
Aug. 8	38.654 ¹⁰	68.02 ³⁰⁵	37.950 ⁷⁷	61.58 ¹¹¹	51.013 ³²	41.43 ³⁰⁸	53.578 ⁷¹	59.35 ⁴⁷
18	38.664 ⁴¹	71.07 ²⁸⁵	38.027 ²¹	62.69 ¹²⁴	51.045 ¹⁹	44.51 ²⁸⁷	53.649 ²⁵	58.88 ²⁸
28	38.623 ⁹¹	73.92 ²⁵⁸	38.048 ³⁴	63.93 ¹³¹	51.026 ⁶⁶	47.38 ²⁶¹	53.674 ¹⁸	58.60 ¹⁰
Sept. 7	38.532 ¹³⁴	76.50 ²²⁷	38.014 ⁸³	65.24 ¹³²	50.960 ¹¹⁰	49.99 ²³¹	53.656 ⁵⁶	58.50 ⁶
17	38.398 ¹⁷⁰	78.77 ¹⁹¹	37.931 ¹²⁵	66.56 ¹²⁴	50.850 ¹⁴⁵	52.30 ¹⁹⁶	53.600 ⁸⁹	58.56 ¹⁸
27	38.228 ¹⁹⁹	80.68 ¹⁵¹	37.806 ¹⁵⁷	67.80 ¹¹³	50.705 ¹⁷³	54.26 ¹⁵⁷	53.511 ¹¹⁴	58.74 ²⁹
Okt. 7	38.029 ²¹⁹	82.19 ¹⁰⁹	37.649 ¹⁷⁹	68.93 ⁹⁶	50.532 ¹⁹⁴	55.83 ¹¹⁶	53.397 ¹³²	59.03 ³⁷
17	37.810 ²³⁰	83.28 ⁶⁴	37.470 ¹⁹⁰	69.89 ⁷³	50.338 ²⁰⁵	56.99 ⁷²	53.265 ¹⁴⁰	59.40 ⁴²
27	37.580 ²³⁰	83.92 ¹⁶	37.280 ¹⁹⁰	70.62 ⁴⁸	50.133 ²⁰⁶	57.71 ²⁶	53.125 ¹³⁹	59.82 ⁴⁵
Nov. 6	37.350 ²²³	84.08 ³²	37.090 ¹⁷⁸	71.10 ²¹	49.927 ¹⁹⁹	57.97 ²⁰	52.986 ¹³¹	60.27 ⁴⁶
16	37.127 ²⁰⁷	83.76 ⁸⁰	36.912 ¹⁵⁷	71.31 ⁹	49.728 ¹⁸⁴	57.77 ⁶⁶	52.855 ¹¹⁵	60.73 ⁴⁵
26	36.920 ¹⁸³	82.96 ¹²⁶	36.755 ¹²⁷	71.22 ³⁷	49.544 ¹⁶³	57.11 ¹¹⁰	52.740 ⁹³	61.18 ⁴⁴
Dez. 6	36.737 ¹⁵³	81.70 ¹⁶⁹	36.628 ⁹²	70.85 ⁶⁴	49.381 ¹³⁵	56.01 ¹⁵²	52.647 ⁶⁷	61.62 ⁴²
16	36.584 ¹¹⁸	80.01 ²⁰⁸	36.536 ⁵²	70.21 ⁸⁹	49.246 ¹⁰²	54.49 ¹⁸⁹	52.580 ³⁸	62.04 ³⁸
26	36.466 ⁷⁸	77.93 ²³⁸	36.484 ¹⁰	69.32 ¹¹²	49.144 ⁶⁴	52.60 ²¹⁹	52.542 ⁶	62.42 ³²
36	36.388	75.55	36.474	68.20	49.080	50.41	52.536	62.74
Mittl. Ort	35.990	62.33	33.708	68.09	48.128	33.27	50.263	67.45
sec δ, tg δ	1.323	+0.866	1.285	−0.807	1.276	+0.793	1.021	−0.206
a, a'	+2.2	+13.8	+3.8	+14.1	+2.3	+14.4	+3.3	+14.5
b, b'	+0.04	+0.72	−0.04	+0.71	+0.04	+0.70	−0.01	+0.69

1) Die jährliche Parallaxe (0.30) ist bereits berücksichtigt.

Tag	795) Br 2777		797) ζ Cygni		800) α Equulei		803) α Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	21 ^h 6 ^m	+77° 50'	21 ^h 9 ^m	+29° 56'	21 ^h 12 ^m	+4° 57'	21 ^h 16 ^m	+62° 17'
Jan. I	47.93 ⁶¹	53.93 ²⁶⁵	58.182 ³⁸	32.97 ²¹⁶	21.103 ²	34.46 ¹¹⁵	52.86 ²¹	38.00 ²⁶⁴
II	47.32 ⁴³	51.28 ²⁹⁸	58.144 ¹	30.81 ²³⁰	21.101 ²⁸	33.31 ¹¹⁵	52.65 ¹⁵	35.36 ²⁹⁵
21	46.89 ²⁵	48.30 ³²²	58.143 ³⁶	28.51 ²³⁵	21.129 ⁶⁰	32.16 ¹¹⁰	52.50 ⁷	32.41 ³¹⁴
31	46.64 ⁶	45.08 ³³⁰	58.179 ⁷⁵	26.16 ²³⁰	21.189 ⁹¹	31.06 ¹⁰⁰	52.43 ¹	29.27 ³²²
Feb. 10	46.58 ¹⁴	41.78 ³²⁶	58.254 ¹¹³	23.86 ²¹⁵	21.280 ¹²¹	30.06 ⁸³	52.44 ¹⁰	26.05 ³¹⁵
20	46.72 ³³	38.52 ³¹⁰	58.367 ¹⁵²	21.71 ¹⁹¹	21.401 ¹⁵²	29.23 ⁶¹	52.54 ¹⁸	22.90 ²⁹⁷
März 2	47.05 ⁵¹	35.42 ²⁸¹	58.519 ¹⁸⁹	19.80 ¹⁵⁸	21.553 ¹⁸³	28.62 ³⁶	52.72 ²⁶	19.93 ²⁶⁷
12	47.56 ⁶⁸	32.61 ²⁴²	58.708 ²²⁴	18.22 ¹¹⁸	21.736 ²¹¹	28.26 ⁵	52.98 ³³	17.26 ²²⁵
22	48.24 ⁸¹	30.19 ¹⁹¹	58.932 ²⁵⁶	17.04 ⁷³	21.947 ²³⁸	28.21 ²⁷	53.31 ⁴⁰	15.01 ¹⁷⁶
Apr. I	49.05 ⁹²	28.28 ¹³⁶	59.188 ²⁸⁵	16.31 ²⁴	22.185 ²⁶²	28.48 ⁶⁰	53.71 ⁴⁵	13.25 ¹¹⁹
II	49.97 ¹⁰⁰	26.92 ⁷⁵	59.473 ³⁰⁸	16.07 ²⁶	22.447 ²⁸⁴	29.08 ⁹¹	54.16 ⁴⁹	12.06 ⁵⁸
21	50.97 ¹⁰⁴	26.17 ¹²	59.781 ³²⁵	16.33 ⁷⁷	22.731 ³⁰⁰	29.99 ¹²²	54.65 ⁵¹	11.48 ⁴
Mai I	52.01 ¹⁰⁵	26.05 ⁵⁰	60.106 ³³⁵	17.10 ¹²⁴	23.031 ³¹¹	31.21 ¹⁴⁹	55.16 ⁵³	11.52 ⁶⁶
II	53.06 ¹⁰²	26.55 ¹¹²	60.441 ³³⁷	18.34 ¹⁶⁸	23.342 ³¹⁶	32.70 ¹⁷²	55.69 ⁵³	12.18 ¹²⁶
21	54.08 ⁹⁶	27.67 ¹⁶⁸	60.778 ³³⁰	20.02 ²⁰⁶	23.658 ³¹³	34.42 ¹⁸⁹	56.22 ⁵¹	13.44 ¹⁸¹
31	55.04 ⁸⁷	29.35 ²¹⁹	61.108 ³¹⁷	22.08 ²³⁸	23.971 ³⁰³	36.31 ²⁰¹	56.73 ⁴⁸	15.25 ²³⁰
Juni 10	55.91 ⁷⁷	31.54 ²⁶⁴	61.425 ²⁹⁴	24.46 ²⁶³	24.274 ²⁸⁷	38.32 ²⁰⁷	57.21 ⁴³	17.55 ²⁷⁴
20	56.68 ⁶³	34.18 ³⁰¹	61.719 ²⁶⁵	27.09 ²⁸²	24.561 ²⁶²	40.39 ²⁰⁸	57.64 ³⁷	20.29 ³⁰⁸
30	57.31 ⁴⁹	37.19 ³³¹	61.984 ²²⁹	29.91 ²⁹²	24.823 ²³¹	42.47 ²⁰³	58.01 ³¹	23.37 ³³⁷
Juli 10	57.80 ³²	40.50 ³⁵³	62.213 ¹⁸⁷	32.83 ²⁹⁶	25.054 ¹⁹⁵	44.50 ¹⁹⁴	58.32 ²³	26.74 ³⁵⁵
20	58.12 ¹⁵	44.03 ³⁶⁶	62.400 ¹⁴²	35.79 ²⁹⁴	25.249 ¹⁵⁵	46.44 ¹⁸¹	58.55 ¹⁶	30.29 ³⁶⁶
30	58.27 ²	47.69 ³⁷¹	62.542 ⁹³	38.73 ²⁸⁴	25.404 ¹¹²	48.25 ¹⁶⁴	58.71 ⁸	33.95 ³⁶⁹
Aug. 9	58.25 ¹⁸	51.40 ³⁶⁸	62.635 ⁴⁴	41.57 ²⁶⁹	25.516 ⁶⁷	49.89 ¹⁴⁵	58.79 ¹	37.64 ³⁶⁴
18	58.07 ³⁴	55.08 ³⁵⁸	62.679 ³	44.26 ²⁴⁸	25.583 ²³	51.34 ¹²⁴	58.78 ⁸	41.28 ³⁵¹
28	57.73 ⁵⁰	58.66 ³⁴⁰	62.676 ⁴⁸	46.74 ²²⁵	25.606 ¹⁸	52.58 ¹⁰¹	58.70 ¹⁶	44.79 ³³⁰
Sept. 7	57.23 ⁶⁵	62.06 ³¹⁵	62.628 ⁸⁸	48.99 ¹⁹⁵	25.588 ⁵⁵	53.59 ⁷⁹	58.54 ²³	48.09 ³⁰⁴
17	56.58 ⁷⁷	65.21 ²⁸⁴	62.540 ¹²²	50.94 ¹⁶⁴	25.533 ⁸⁸	54.38 ⁵⁷	58.31 ²⁹	51.13 ²⁷¹
27	55.81 ⁸⁸	68.05 ²⁴⁵	62.418 ¹⁹⁰	52.58 ¹²⁸	25.445 ¹¹²	54.95 ³⁵	58.02 ³⁴	53.84 ²³¹
Okt. 7	54.93 ⁹⁶	70.50 ²⁰¹	62.268 ¹⁶⁹	53.86 ⁹¹	25.333 ¹³⁰	55.30 ¹³	57.68 ³⁸	56.15 ¹⁸⁷
17	53.97 ¹⁰³	72.51 ¹⁵²	62.099 ¹⁷⁹	54.77 ⁵³	25.203 ¹³⁸	55.43 ⁷	57.30 ⁴¹	58.02 ¹³⁷
27	52.94 ¹⁰⁷	74.03 ⁹⁹	61.920 ¹⁸²	55.30 ¹³	25.065 ¹⁴⁰	55.36 ²⁷	56.89 ⁴²	59.39 ⁸⁵
Nov. 6	51.87 ¹⁰⁸	75.02 ⁴²	61.738 ¹⁷⁷	55.43 ²⁸	24.925 ¹³²	55.09 ⁴⁵	56.47 ⁴³	60.24 ²⁸
16	50.79 ¹⁰⁶	75.44 ¹⁸	61.561 ¹⁶³	55.15 ⁶⁹	24.793 ¹¹⁹	54.64 ⁶³	56.04 ⁴²	60.52 ²⁹
26	49.73 ¹⁰¹	75.26 ⁷⁷	61.398 ¹⁴⁴	54.46 ¹⁰⁷	24.674 ¹⁰⁰	54.01 ⁷⁸	55.62 ³⁹	60.23 ⁸⁶
Dez. 6	48.72 ⁹³	74.49 ¹³⁵	61.254 ¹²⁰	53.39 ¹⁴³	24.574 ⁷⁶	53.23 ⁹²	55.23 ³⁵	59.37 ¹⁴²
16	47.79 ⁸³	73.14 ¹⁸⁹	61.134 ⁹¹	51.96 ¹⁷⁵	24.498 ⁵⁰	52.31 ¹⁰³	54.88 ³¹	57.95 ¹⁹³
26	46.96 ⁶⁹	71.25 ²³⁷	61.043 ⁵⁸	50.21 ²⁰¹	24.448 ²⁰	51.28 ¹¹⁰	54.57 ²⁶	56.02 ²³⁸
36	46.27	68.88	60.985	48.20	24.428	50.18	54.31	53.64
Mittl. Ort	54.77	49.16	59.909	34.90	22.512	41.72	56.03	33.93
sec δ, tg δ	4.750	+4.644	1.154	+0.576	1.004	+0.087	2.151	+1.904
a, a'	-1.2	+14.6	+2.6	+14.8	+3.0	+14.9	+1.4	+15.2
b, b'	+0.23	+0.69	+0.03	+0.68	0.00	+0.67	+0.10	+0.65

Tag	804) γ Pegasi			805) γ Pavonis			806) ζ Capricorni			809) β Cephei		
	AR.	Dekl.		AR.	Dekl.		AR.	Dekl.		AR.	Dekl.	
1931	21 ^h 18 ^m	+19° 30'		21 ^h 20 ^m	—65° 40'		21 ^h 22 ^m	—22° 42'		21 ^h 27 ^m	+70° 15'	
Jan. I	52.158 ²⁶	26.36 ¹⁷⁴		43.53 ¹⁰	67.16 ²⁵¹		42.583 ¹	53.75 ³¹		42.42 ³⁷	33.14 ²⁵¹	
II	52.132 ⁷	24.62 ¹⁸³		43.43 ¹	64.65 ²⁷⁷		42.582 ³²	53.44 ⁴⁵		42.05 ²⁸	30.63 ²⁸⁷	
21	52.139 ⁴⁰	22.79 ¹⁸⁵		43.42 ⁸	61.88 ²⁹⁷		42.614 ⁶⁵	52.99 ⁶⁰		41.77 ¹⁷	27.76 ³¹³	
31	52.179 ⁷⁴	20.94 ¹⁷⁷		43.50 ¹⁵	58.91 ³⁰⁹		42.679 ⁹⁸	52.39 ⁷⁴		41.60 ⁵	24.63 ³²⁵	
Feb. 10	52.253 ¹⁰⁸	19.17 ¹⁶³		43.65 ²⁴	55.82 ³¹⁴		42.777 ¹³¹	51.65 ⁸⁹		41.55 ⁷	21.38 ³²⁴	
20	52.361 ¹⁴³	17.54 ¹⁴⁰		43.89 ³¹	52.68 ³¹²		42.908 ¹⁶³	50.76 ¹⁰⁴		41.62 ¹⁸	18.14 ³¹¹	
März 2	52.504 ¹⁷⁶	16.14 ¹¹⁰		44.20 ³⁹	49.56 ³⁰⁴		43.071 ¹⁹⁴	49.72 ¹¹⁹		41.80 ³⁰	15.03 ²⁸⁵	
12	52.680 ²⁰⁸	15.04 ⁷⁵		44.59 ⁴⁵	46.52 ²⁸⁹		43.265 ²²⁴	48.53 ¹³³		42.10 ⁴⁰	12.18 ²⁴⁸	
22	52.888 ²³⁸	14.29 ³⁴		45.04 ⁵¹	43.63 ²⁶⁹		43.489 ²⁵³	47.20 ¹⁴⁴		42.50 ⁵⁰	9.70 ²⁰⁰	
Apr. I	53.126 ²⁶⁶	13.95 ⁸		45.55 ⁵⁶	40.94 ²⁴³		43.742 ²⁷⁹	45.76 ¹⁵⁵		43.00 ⁵⁷	7.70 ¹⁴⁷	
II	53.392 ²⁸⁸	14.03 ⁵¹		46.11 ⁶¹	38.51 ²¹³		44.021 ³⁰³	44.21 ¹⁶²		43.57 ⁶³	6.23 ⁸⁷	
21	53.680 ³⁰⁷	14.54 ⁹⁴		46.72 ⁶⁴	36.38 ¹⁷⁹		44.324 ³²²	42.59 ¹⁶⁵		44.20 ⁶⁸	5.36 ²⁴	
Mai I	53.987 ³¹⁸	15.48 ¹³⁴		47.36 ⁶⁶	34.59 ¹⁴⁰		44.646 ³³⁶	40.94 ¹⁶⁴		44.88 ⁶⁹	5.12 ³⁸	
II	54.305 ³²³	16.82 ¹⁷⁰		48.02 ⁶⁷	33.19 ⁹⁹		44.982 ³⁴³	39.30 ¹⁶⁰		45.57 ⁶⁹	5.50 ⁹⁹	
21	54.628 ³²⁰	18.52 ¹⁹⁹		48.69 ⁶⁶	32.20 ⁵⁵		45.325 ³⁴⁴	37.70 ¹⁵¹		46.26 ⁶⁶	6.49 ¹⁵⁷	
31	54.948 ³¹⁰	20.51 ²²⁵		49.35 ⁶⁵	31.65 ¹⁰		45.669 ³³⁶	36.19 ¹³⁸		46.92 ⁶³	8.06 ²¹⁰	
Juni 10	55.258 ²⁹²	22.76 ²⁴³		50.00 ⁶¹	31.55 ³⁵		46.005 ³²¹	34.81 ¹²¹		47.55 ⁵⁶	10.16 ²⁵⁶	
20	55.550 ²⁶⁵	25.19 ²⁵⁵		50.61 ⁵⁷	31.90 ⁷⁸		46.326 ²⁹⁸	33.60 ¹⁰¹		48.11 ⁴⁹	12.72 ²⁹⁶	
30	55.815 ²³³	27.74 ²⁶⁰		51.18 ⁵⁰	32.68 ¹¹⁸		46.624 ²⁶⁸	32.59 ⁷⁸		48.60 ⁴¹	15.68 ³²⁸	
Juli 10	56.048 ¹⁹⁷	30.34 ²⁵⁸		51.68 ⁴²	33.86 ¹⁵⁶		46.892 ²³¹	31.81 ⁵⁵		49.01 ³⁰	18.96 ³⁵¹	
20	56.245 ¹⁵⁴	32.92 ²⁵²		52.10 ³⁴	35.42 ¹⁸⁸		47.123 ¹⁸⁸	31.26 ³¹		49.31 ²⁰	22.47 ³⁶⁷	
30	56.399 ¹⁰⁹	35.44 ²⁴⁰		52.44 ²⁴	37.30 ²¹⁴		47.311 ¹⁴¹	30.95 ⁷		49.51 ⁹	26.14 ³⁷⁴	
Aug. 9	56.508 ⁶⁴	37.84 ²²⁴		52.68 ¹⁴	39.44 ²³¹		47.452 ⁹⁴	30.88 ¹⁵		49.60 ¹	29.88 ³⁷⁴	
18	56.572 ¹⁹	40.08 ²⁰³		52.82 ⁴	41.75 ²⁴⁰		47.546 ⁴⁶	31.03 ³⁴		49.59 ¹²	33.62 ³⁶⁶	
28	56.591 ²⁴	42.11 ¹⁸⁰		52.86 ⁶	44.15 ²⁴¹		47.592 ²	31.37 ⁵¹		49.47 ²²	37.28 ³⁴⁹	
Sept. 7	56.567 ⁶³	43.91 ¹⁵⁴		52.80 ¹⁶	46.56 ²³¹		47.590 ⁴⁴	31.88 ⁶³		49.25 ³²	40.77 ³²⁶	
17	56.504 ⁹⁶	45.45 ¹²⁴		52.64 ²⁵	48.87 ²¹¹		47.546 ⁸¹	32.51 ⁷⁰		48.93 ⁴⁰	44.03 ²⁹⁶	
27	56.408 ¹²²	46.69 ⁹⁵		52.39 ³¹	50.98 ¹⁸³		47.465 ¹¹¹	33.21 ⁷³		48.53 ⁴⁷	46.99 ²⁵⁹	
Okt. 7	56.286 ¹⁴¹	47.64 ⁶⁴		52.08 ³⁷	52.81 ¹⁴⁷		47.354 ¹³³	33.94 ⁷³		48.06 ⁵³	49.58 ²¹⁷	
17	56.145 ¹⁵²	48.28 ³³		51.71 ⁴⁰	54.28 ¹⁰⁴		47.221 ¹⁴⁴	34.67 ⁶⁷		47.53 ⁵⁷	51.75 ¹⁶⁸	
27	55.993 ¹⁵⁴	48.61 ⁰		51.31 ⁴²	55.32 ⁵⁵		47.077 ¹⁴⁷	35.34 ⁵⁹		46.96 ⁶¹	53.43 ¹¹⁶	
Nov. 6	55.839 ¹⁵⁰	48.61 ³²		50.89 ⁴²	55.87 ⁴		46.930 ¹⁴²	35.93 ⁴⁸		46.35 ⁶²	54.59 ⁶⁰	
16	55.689 ¹³⁸	48.29 ⁶⁴		50.47 ³⁹	55.91 ⁴⁸		46.788 ¹²⁸	36.41 ³⁵		45.73 ⁶¹	55.19 ⁰	
26	55.551 ¹²¹	47.65 ⁹³		50.08 ³⁵	55.43 ¹⁰¹		46.660 ¹⁰⁷	36.76 ²¹		45.12 ⁵⁹	55.19 ⁵⁹	
Dez. 6	55.430 ⁹⁸	46.72 ¹²⁰		49.73 ²⁹	54.42 ¹⁴⁹		46.553 ⁸²	36.97 ⁶		44.53 ⁵⁵	54.60 ¹¹⁷	
16	55.332 ⁷²	45.52 ¹⁴⁴		49.44 ²³	52.93 ¹⁹³		46.471 ⁵³	37.03 ⁸		43.98 ⁵⁰	53.43 ¹⁷³	
26	55.260 ⁴⁴	44.08 ¹⁶³		49.21 ¹⁴	51.00 ²³²		46.418 ²¹	36.95 ²³		43.48 ⁴²	51.70 ²²²	
36	55.216	42.45		49.07	48.68		46.397	36.72		43.06	49.48	
Mittl. Ort	53.688	30.10		45.62	47.66		43.869	40.51		46.65	27.24	
sec δ , tg δ	1.061	+0.354		2.428	—2.213		1.084	—0.419		2.960	+2.786	
a, a'	+2.8	+15.3		+5.0	+15.4		+3.4	+15.5		+0.8	+15.8	
b, b'	+0.02	+0.65		—0.11	+0.64		—0.02	+0.63		+0.15	+0.62	

Tag	808) β Aquarii		810) ν Octantis		811) 74 Cygni		815) ϵ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	21 ^h 27 ^m	—5° 52'	21 ^h 33 ^m	—77° 41'	21 ^h 34 ^m	+40° 5'	21 ^h 40 ^m	+9° 33'
Jan. 1	54.380 ⁸	41.68 ⁵⁷	48.99 ³⁴	74.23 ²⁸⁶	9.003 ⁸⁹	71.78 ²²⁵	46.473 ²⁹	22.76 ¹²⁵
11	54.372 ²²	42.25 ⁵²	48.65 ¹⁷	71.37 ³¹⁶	8.914 ⁵⁰	69.53 ²⁴⁷	46.444 ¹	21.51 ¹²⁸
21	54.394 ⁵²	42.77 ⁴²	48.48 ¹	68.21 ³³⁸	8.864 ⁹	67.06 ²⁶¹	46.443 ²⁹	20.23 ¹²⁶
31	54.446 ⁸²	43.19 ³⁰	48.47 ¹⁶	64.83 ³⁵¹	8.855 ³⁵	64.45 ²⁶³	46.472 ⁵⁹	18.97 ¹¹⁹
Feb. 10	54.528 ¹¹²	43.49 ¹⁴	48.63 ³²	61.32 ³⁵⁵	8.890 ⁸¹	61.82 ²⁵⁴	46.531 ⁹⁰	17.78 ¹⁰⁴
20	54.640 ¹⁴²	43.63 ⁵	48.95 ⁴⁸	57.77 ³⁵¹	8.971 ¹²⁷	59.28 ²³⁵	46.621 ¹²³	16.74 ⁸³
März 2	54.782 ¹⁷³	43.58 ²⁷	49.43 ⁶³	54.26 ³³⁹	9.098 ¹⁷²	56.93 ²⁰⁶	46.744 ¹⁵⁵	15.91 ⁵⁸
12	54.955 ²⁰²	43.31 ⁵¹	50.06 ⁷⁶	50.87 ³²⁰	9.270 ²¹⁷	54.87 ¹⁶⁸	46.899 ¹⁸⁶	15.33 ²⁸
22	55.157 ²³¹	42.80 ⁷⁶	50.82 ⁸⁷	47.67 ²⁹⁵	9.487 ²⁵⁷	53.19 ¹²²	47.085 ²¹⁸	15.05 ⁶
Apr. 1	55.388 ²⁵⁶	42.04 ¹⁰⁰	51.69 ⁹⁸	44.72 ²⁶³	9.744 ²⁹⁴	51.97 ⁷²	47.303 ²⁴⁶	15.11 ⁴¹
11	55.644 ²⁸⁰	41.04 ¹²²	52.67 ¹⁰⁷	42.09 ²²⁷	10.038 ³²⁴	51.25 ¹⁷	47.549 ²⁷²	15.52 ⁷⁷
21	55.924 ²⁹⁹	39.82 ¹⁴³	53.74 ¹¹³	39.82 ¹⁸⁵	10.362 ³⁴⁷	51.08 ³⁷	47.821 ²⁹²	16.29 ¹¹¹
Mai 1	56.223 ³¹³	38.39 ¹⁵⁹	54.87 ¹¹⁸	37.97 ¹⁴¹	10.709 ³⁶²	51.45 ⁹⁰	48.113 ³⁰⁸	17.40 ¹⁴²
11	56.536 ³²⁰	36.80 ¹⁷²	56.05 ¹²⁰	36.56 ⁹³	11.071 ³⁶⁹	52.35 ¹⁴²	48.421 ³¹⁷	18.82 ¹⁶⁹
21	56.856 ³²¹	35.08 ¹⁷⁹	57.25 ¹¹⁹	35.63 ⁴³	11.440 ³⁶⁵	53.77 ¹⁸⁸	48.738 ³¹⁹	20.51 ¹⁹¹
31	57.177 ³¹⁴	33.29 ¹⁸²	58.44 ¹¹⁶	35.20 ⁸	11.805 ³⁵²	55.65 ²²⁸	49.057 ³¹³	22.42 ²⁰⁹
Juni 10	57.491 ³⁰⁰	31.47 ¹⁷⁹	59.60 ¹¹⁰	35.28 ⁵⁷	12.157 ³³¹	57.93 ²⁶³	49.370 ³⁰⁰	24.51 ²²⁰
20	57.791 ²⁷⁸	29.68 ¹⁷¹	60.70 ¹⁰²	35.85 ¹⁰⁶	12.488 ³⁰⁰	60.56 ²⁹⁰	49.670 ²⁷⁹	26.71 ²²⁶
30	58.069 ²⁵⁰	27.97 ¹⁶⁰	61.72 ⁹¹	36.91 ¹⁵¹	12.788 ²⁶³	63.46 ³⁰⁹	49.949 ²⁵⁰	28.97 ²²⁵
Juli 10	58.319 ²¹⁵	26.37 ¹⁴⁵	62.63 ⁷⁷	38.42 ¹⁹⁰	13.051 ²¹⁸	66.55 ³²²	50.199 ²¹⁷	31.22 ²²⁰
20	58.534 ¹⁷⁶	24.92 ¹²⁷	63.40 ⁶¹	40.32 ²²⁵	13.269 ¹⁶⁹	69.77 ³²⁶	50.416 ¹⁷⁸	33.42 ²⁰⁹
30	58.710 ¹³³	23.65 ¹⁰⁷	64.01 ⁴⁴	42.57 ²⁵²	13.438 ¹¹⁸	73.03 ³²⁴	50.594 ¹³⁶	35.51 ¹⁹⁵
Aug. 9	58.843 ⁸⁹	22.58 ⁸⁶	64.45 ²⁵	45.09 ²⁷¹	13.556 ⁶⁵	76.27 ³¹⁴	50.730 ⁹³	37.46 ¹⁷⁷
18	58.932 ⁴⁴	21.72 ⁶⁵	64.70 ⁶	47.80 ²⁷⁹	13.621 ¹²	79.41 ²⁹⁸	50.823 ⁴⁸	39.23 ¹⁵⁶
28	58.976 ¹	21.07 ⁴⁴	64.76 ¹³	50.59 ²⁷⁸	13.633 ³⁹	82.39 ²⁷⁷	50.871 ⁵	40.79 ¹³³
Sept. 7	58.977 ³⁸	20.63 ²⁵	64.63 ³¹	53.37 ²⁶⁵	13.594 ⁸⁴	85.16 ²⁵¹	50.876 ³³	42.12 ¹¹⁰
17	58.939 ⁷²	20.38 ⁸	64.32 ⁴⁹	56.02 ²⁴³	13.510 ¹²⁵	87.67 ²¹⁹	50.843 ⁶⁷	43.22 ⁸⁶
27	58.867 ⁹⁹	20.30 ⁸	63.83 ⁶³	58.45 ²¹¹	13.385 ¹⁵⁸	89.86 ¹⁸³	50.776 ⁹⁵	44.08 ⁶¹
Okt. 7	58.768 ¹¹⁸	20.38 ²¹	63.20 ⁷⁴	60.56 ¹⁶⁸	13.227 ¹⁸³	91.69 ¹⁴⁴	50.681 ¹¹⁵	44.69 ³⁶
17	58.650 ¹³⁰	20.59 ³²	62.46 ⁸⁴	62.24 ¹¹⁹	13.044 ²⁰¹	93.13 ¹⁰¹	50.566 ¹²⁹	45.05 ¹³
27	58.520 ¹³³	20.91 ⁴¹	61.62 ⁸⁸	63.43 ⁶³	12.843 ²¹⁰	94.14 ⁵⁷	50.437 ¹³⁴	45.18 ¹⁰
Nov. 6	58.387 ¹²⁹	21.32 ⁴⁸	60.74 ⁸⁹	64.06 ⁵	12.633 ²¹⁰	94.71 ¹⁰	50.303 ¹³³	45.08 ³³
16	58.258 ¹¹⁷	21.80 ⁵³	59.85 ⁸⁷	64.11 ⁵⁵	12.423 ²⁰³	94.81 ³⁷	50.170 ¹²⁵	44.75 ⁵⁵
26	58.141 ¹⁰⁰	22.33 ⁵⁷	58.98 ⁸⁰	63.56 ¹¹⁴	12.220 ¹⁸⁹	94.44 ⁸⁴	50.045 ¹¹¹	44.20 ⁷⁴
Dez. 6	58.041 ⁷⁸	22.90 ⁶⁰	58.18 ⁷⁰	62.42 ¹⁷⁰	12.031 ¹⁶⁸	93.60 ¹²⁸	49.934 ⁹²	43.46 ⁹¹
16	57.963 ⁵³	23.50 ⁶⁰	57.48 ⁵⁹	60.72 ²²¹	11.863 ¹⁴¹	92.32 ¹⁶⁹	49.842 ⁷⁰	42.55 ¹⁰⁷
26	57.910 ²⁵	24.10 ⁵⁸	56.89 ⁴⁴	58.51 ²⁶⁴	11.722 ¹⁰⁹	90.63 ²⁰⁴	49.772 ⁴⁵	41.48 ¹¹⁸
36	57.885	24.68	56.45	55.87	11.613	88.59	49.727	40.30
Mittl. Ort	55.668	32.23	52.29	53.60	10.892	70.18	47.812	28.06
sec δ , tg δ	1.005	—0.103	4.693	—4.586	1.307	+0.842	1.014	+0.168
a, a'	+3.2	+15.8	+6.7	+16.1	+2.4	+16.1	+2.9	+16.5
b, b'	—0.01	+0.62	—0.25	+0.60	+0.05	+0.59	+0.01	+0.57

Tag	819) δ Capricorni		821) π^2 Cygni		822) γ Gruis		823) $\iota 6$ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	21 ^h 43 ^m	—16° 26'	21 ^h 44 ^m	+48° 59'	21 ^h 49 ^m	—37° 41'	21 ^h 49 ^m	+25° 35'
Jan. I	12.902 ¹⁸	40.37 ⁴	12.375 ¹³⁹	26.64 ²³⁰	44.187 ³⁹	41.56 ¹⁰³	53.768 ⁶⁰	58.42 ¹⁷⁷
II	12.884 ¹²	40.41 ⁸	12.236 ⁹⁵	24.34 ²⁵⁹	44.148 ²	40.53 ¹²⁸	53.708 ³¹	56.65 ¹⁹²
2I	12.896 ⁴²	40.33 ²³	12.141 ⁴⁷	21.75 ²⁷⁸	44.146 ³⁵	39.25 ¹⁵⁰	53.677 ²	54.73 ²⁰⁰
3I	12.938 ⁷²	40.10 ³⁹	12.094 ⁵	18.97 ²⁸⁷	44.181 ⁷⁴	37.75 ¹⁶⁹	53.679 ³⁶	52.73 ¹⁹⁸
Feb. 10	13.010 ¹⁰⁴	39.71 ⁵⁵	12.099 ⁶⁰	16.10 ²⁸³	44.255 ¹¹¹	36.06 ¹⁸⁶	53.715 ⁷²	50.75 ¹⁸⁹
20	13.114 ¹³⁵	39.16 ⁷²	12.159 ¹¹⁶	13.27 ²⁶⁷	44.366 ¹⁵⁰	34.20 ¹⁹⁸	53.787 ¹⁰⁹	48.86 ¹⁷⁰
März 2	13.249 ¹⁶⁶	38.44 ⁹¹	12.275 ¹⁷²	10.60 ²⁴¹	44.516 ¹⁸⁷	32.22 ²⁰⁹	53.896 ¹⁴⁶	47.16 ¹⁴³
12	13.415 ¹⁹⁷	37.53 ¹⁰⁹	12.447 ²²⁶	8.19 ²⁰⁴	44.703 ²²⁵	30.13 ²¹⁶	54.042 ¹⁸⁴	45.73 ¹⁰⁹
22	13.612 ²²⁸	36.44 ¹²⁷	12.673 ²⁷⁵	6.15 ¹⁶⁰	44.928 ²⁶¹	27.97 ²¹⁹	54.226 ²¹⁹	44.64 ⁷⁰
Apr. I	13.840 ²⁵⁶	35.17 ¹⁴³	12.948 ³²⁰	4.55 ¹⁰⁸	45.189 ²⁹⁴	25.78 ²¹⁷	54.445 ²⁵³	43.94 ²⁶
II	14.096 ²⁸²	33.74 ¹⁵⁶	13.268 ³⁵⁷	3.47 ⁵²	45.483 ³²⁵	23.61 ²¹³	54.698 ²⁸¹	43.68 ¹⁹
2I	14.378 ³⁰³	32.18 ¹⁶⁶	13.625 ³⁸⁵	2.95 ⁶	45.808 ³⁵⁰	21.48 ²⁰³	54.979 ³⁰⁵	43.87 ⁶⁵
Mai I	14.681 ³²⁰	30.52 ¹⁷³	14.010 ⁴⁰³	3.01 ⁶³	46.158 ³⁷¹	19.45 ¹⁸⁹	55.284 ³²³	44.52 ¹¹⁰
II	15.001 ³³¹	28.79 ¹⁷⁴	14.413 ⁴¹¹	3.64 ¹¹⁹	46.529 ³⁸⁵	17.56 ¹⁷⁰	55.607 ³³²	45.62 ¹⁵¹
2I	15.332 ³³⁵	27.05 ¹⁷²	14.824 ⁴⁰⁹	4.83 ¹⁷¹	46.914 ³⁹⁰	15.86 ¹⁴⁷	55.939 ³³⁵	47.13 ¹⁸⁷
3I	15.667 ³³¹	25.33 ¹⁶⁵	15.233 ³⁹⁴	6.54 ²¹⁷	47.304 ³⁸⁷	14.39 ¹²⁰	56.274 ³²⁸	49.00 ²¹⁸
Juni 10	15.998 ³¹⁹	23.68 ¹⁵³	15.627 ³⁷⁰	8.71 ²⁵⁷	47.691 ³⁷⁵	13.19 ⁹¹	56.602 ³¹³	51.18 ²⁴⁴
20	16.317 ²⁹⁹	22.15 ¹³⁶	15.997 ³³⁵	11.28 ²⁹¹	48.066 ³⁵⁴	12.28 ⁵⁹	56.915 ²⁹¹	53.62 ²⁶²
30	16.616 ²⁷²	20.79 ¹¹⁸	16.332 ²⁹⁴	14.19 ³¹⁷	48.420 ³²³	11.69 ²⁶	57.206 ²⁶¹	56.24 ²⁷⁴
Juli 10	16.888 ²³⁸	19.61 ⁹⁶	16.626 ²⁴⁴	17.36 ³³⁵	48.743 ²⁸⁵	11.43 ⁷	57.467 ²²⁵	58.98 ²⁸⁰
20	17.126 ²⁰⁰	18.65 ⁷³	16.870 ¹⁸⁹	20.71 ³⁴⁵	49.028 ²⁴⁰	11.50 ³⁹	57.692 ¹⁸⁴	61.78 ²⁷⁸
30	17.326 ¹⁵⁶	17.92 ⁴⁹	17.059 ¹³⁰	24.16 ³⁴⁸	49.268 ¹⁸⁹	11.89 ⁶⁹	57.876 ¹³⁹	64.56 ²⁷²
Aug. 9	17.482 ¹¹⁰	17.43 ²⁶	17.189 ⁷¹	27.64 ³⁴³	49.457 ¹³⁵	12.58 ⁹⁴	58.015 ⁹³	67.28 ²⁵⁸
18*)	17.592 ⁶⁴	17.17 ⁴	17.260 ¹²	31.07 ³³¹	49.592 ⁷⁹	13.52 ¹¹⁶	58.108 ⁴⁷	69.86 ²⁴²
28	17.656 ¹⁸	17.13 ¹⁶	17.272 ⁴⁵	34.38 ³¹²	49.671 ²⁴	14.68 ¹³²	58.155 ²	72.28 ²²⁰
Sept. 7	17.674 ²³	17.29 ³²	17.227 ⁹⁸	37.50 ²⁸⁸	49.695 ²⁷	16.00 ¹⁴¹	58.157 ³⁹	74.48 ¹⁹⁵
17	17.651 ⁶⁰	17.61 ⁴⁶	17.129 ¹⁴⁶	40.38 ²⁵⁸	49.668 ⁷⁴	17.41 ¹⁴³	58.118 ⁷⁶	76.43 ¹⁶⁶
27	17.591 ⁹¹	18.07 ⁵⁵	16.983 ¹⁸⁵	42.96 ²²²	49.594 ¹¹³	18.84 ¹⁴⁰	58.042 ¹⁰⁶	78.09 ¹³⁶
Okt. 7	17.500 ¹¹³	18.62 ⁶⁰	16.798 ²¹⁷	45.18 ¹⁸¹	49.481 ¹⁴³	20.24 ¹²⁸	57.936 ¹²⁹	79.45 ¹⁰³
17	17.387 ¹²⁸	19.22 ⁶³	16.581 ²⁴⁰	46.99 ¹³⁷	49.338 ¹⁶⁴	21.52 ¹¹¹	57.807 ¹⁴⁶	80.48 ⁶⁹
27	17.259 ¹³⁴	19.85 ⁶⁰	16.341 ²⁵⁵	48.36 ⁹⁰	49.174 ¹⁷⁵	22.63 ⁸⁸	57.661 ¹⁵⁵	81.17 ³³
Nov. 6	17.125 ¹³²	20.45 ⁵⁶	16.086 ²⁵⁹	49.26 ³⁸	48.999 ¹⁷⁵	23.51 ⁶²	57.506 ¹⁵⁶	81.50 ³
16	16.993 ¹²³	21.01 ⁵⁰	15.827 ²⁵⁶	49.64 ¹⁴	48.824 ¹⁶⁶	24.13 ³³	57.350 ¹⁵⁰	81.47 ³⁹
26	16.870 ¹⁰⁷	21.51 ⁴²	15.571 ²⁴⁴	49.50 ⁶⁵	48.658 ¹⁴⁹	24.46 ²	57.200 ¹³⁹	81.08 ⁷⁴
Dez. 6	16.763 ⁸⁷	21.93 ³²	15.327 ²²³	48.85 ¹¹⁶	48.509 ¹²⁴	24.48 ²⁹	57.061 ¹²²	80.34 ¹⁰⁷
16	16.676 ⁶³	22.25 ²¹	15.104 ¹⁹⁵	47.69 ¹⁶³	48.385 ⁹⁵	24.19 ⁵⁹	56.939 ¹⁰¹	79.27 ¹³⁷
26	16.613 ³⁵	22.46 ¹⁰	14.909 ¹⁶¹	46.06 ²⁰⁵	48.290 ⁶¹	23.60 ⁸⁸	56.838 ⁷⁷	77.90 ¹⁶²
36	16.578	22.56	14.748	44.01	48.229	22.72	56.761	76.28
Mittl. Ort	14.087	28.56	14.540	22.60	45.359	25.06	55.275	59.24
sec δ , tg δ	1.043	—0.295	1.524	+1.150	1.264	—0.773	1.109	+0.479
a, a'	+3.3	+16.6	+2.2	+16.6	+3.6	+16.9	+2.7	+16.9
b, b'	—0.02	+0.56	+0.06	+0.56	—0.04	+0.54	+0.03	+0.54

*) Bei Stern 822) und 823) lies Aug. 19

Tag	827) α Aquarii		828) ϵ Aquarii		830) α Cephei		829) α Gruis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	22 ^h 2 ^m	—0° 39'	22 ^h 2 ^m	—14° 12'	22 ^h 2 ^m	+62° 26'	22 ^h 3 ^m	—47° 17'
Jan. I	13.268	28.22	41.676	29.55	51.67	62.61	52.444	64.95
II	13.232 ³⁶	28.98 ⁷⁶	41.642 ³⁴	29.70 ¹⁵	51.39 ²⁸	60.44 ²¹⁷	52.368 ⁷⁶	63.53 ¹⁴²
21	13.221 ¹¹	29.70 ⁷²	41.635 ⁷	29.72 ²	51.37 ²²	57.88 ²⁵⁶	52.334 ³⁴	61.79 ¹⁷⁴
31	13.237 ¹⁶	30.35 ⁶⁵	41.656 ²¹	29.60 ¹²	51.17 ¹⁵	55.02 ²⁸⁶	52.343 ⁹	59.79 ²⁰⁰
Feb. 10	13.282 ⁴⁵	30.89 ⁵⁴	41.706 ⁵⁰	29.32 ²⁸	51.02 ⁸	51.99 ³⁰³	52.397 ⁵⁴	57.56 ²²³
20	13.356 ⁷⁴	31.28 ³⁹	41.787 ⁸¹	28.86 ⁴⁶	50.94 ⁰	48.89 ³¹⁰	52.496 ⁹⁹	55.16 ²⁴⁰
März 2	13.461 ¹⁰⁵	31.48 ²⁰	41.899 ¹¹²	28.22 ⁶⁴	51.03 ⁹	45.86 ³⁰³	52.641 ¹⁴⁵	52.63 ²⁵³
12	13.598 ¹³⁷	31.44 ⁴	42.043 ¹⁴⁴	27.38 ⁸⁴	51.20 ¹⁷	43.03 ²⁸³	52.830 ¹⁸⁹	50.03 ²⁶⁰
22	13.767 ¹⁶⁹	31.15 ²⁹	42.219 ¹⁷⁶	26.34 ¹⁰⁴	51.45 ²⁵	40.51 ²⁵²	53.064 ²³⁴	47.39 ²⁶⁴
Apr. I	13.968 ²⁰¹	30.59 ⁵⁶	42.427 ²⁰⁸	25.11 ¹²³	51.78 ³³	38.40 ²¹¹	53.341 ²⁷⁷	44.77 ²⁶²
11	14.200 ²³²	29.75 ⁸⁴	42.666 ²³⁹	23.69 ¹⁴²	52.18 ⁴⁰	36.78 ¹⁶²	53.658 ³¹⁷	42.23 ²⁵⁴
21	14.459 ²⁵⁹	28.64 ¹¹¹	42.932 ²⁶⁶	22.11 ¹⁵⁸	52.63 ⁴⁵	35.71 ¹⁰⁷	54.012 ³⁵⁴	39.81 ²⁴²
Mai I	14.742 ²⁸³	27.27 ¹³⁷	43.223 ²⁹¹	20.40 ¹⁷¹	53.13 ⁵⁰	35.23 ⁴⁸	54.308 ³⁸⁶	37.55 ²²⁶
11	15.043 ³⁰¹	25.69 ¹⁵⁸	43.534 ³¹¹	18.60 ¹⁸⁰	53.65 ⁵²	35.36 ¹³	54.809 ⁴¹¹	35.52 ²⁰³
21	15.358 ³¹⁵	23.93 ¹⁷⁶	43.859 ³²⁵	16.76 ¹⁸⁴	54.19 ⁵⁴	36.09 ⁷³	55.238 ⁴²⁹	33.75 ¹⁷⁷
31	15.679 ³²¹	22.03 ¹⁹⁰	44.190 ³³¹	14.92 ¹⁸⁴	54.73 ⁵⁴	37.40 ¹³¹	55.677 ⁴³⁹	32.29 ¹⁴⁶
Juni 10	15.998 ³¹⁹	20.05 ¹⁹⁸	44.521 ³³¹	13.13 ¹⁷⁹	55.25 ⁵²	39.24 ¹⁸⁴	56.115 ⁴³⁸	31.18 ¹¹¹
20	16.308 ³¹⁰	18.05 ²⁰⁰	44.843 ³²²	11.44 ¹⁶⁹	55.74 ⁴⁹	41.57 ²³³	56.542 ⁴²⁷	30.44 ⁷⁴
30	16.601 ²⁹³	16.07 ¹⁹⁸	45.148 ³⁰⁵	9.89 ¹⁵⁵	56.19 ⁴⁵	44.31 ²⁷⁴	56.948 ⁴⁰⁶	30.09 ³⁵
Juli 10	16.869 ²⁶⁸	14.17 ¹⁹⁰	45.428 ²⁸⁰	8.52 ¹³⁷	56.58 ³⁹	47.41 ³¹⁰	57.322 ³⁷⁴	30.13 ⁴
20	17.107 ²³⁸	12.38 ¹⁷⁹	45.678 ²⁵⁰	7.36 ¹¹⁶	56.91 ³³	50.78 ³³⁷	57.656 ³³⁴	30.55 ⁴²
30	17.309 ²⁰²	10.75 ¹⁶³	45.891 ²¹³	6.43 ⁹³	57.16 ²⁵	54.34 ³⁵⁶	57.940 ²⁸⁴	31.34 ⁷⁹
Aug. 9	17.470 ¹⁶¹	9.31 ¹⁴⁴	46.062 ¹⁷¹	5.74 ⁶⁹	57.34 ¹⁸	58.01 ³⁶⁷	58.168 ²²⁸	32.47 ¹¹³
19	17.588 ¹¹⁸	8.07 ¹²⁴	46.189 ¹²⁷	5.30 ⁴⁴	57.74 ¹⁰	61.73 ³⁷²	58.335 ¹⁶⁷	33.88 ¹⁴¹
28	17.662 ⁷⁴	7.05 ¹⁰²	46.270 ⁸¹	5.09 ²¹	57.45 ²³	65.40 ³⁶⁷	58.438 ¹⁰³	35.52 ¹⁶⁴
Sept. 7	17.694 ³²	6.26 ⁷⁹	46.307 ³⁷	5.10 ¹	57.39 ⁶	68.95 ³⁵⁵	58.477 ³⁹	37.32 ¹⁸⁰
17	17.686 ⁸	5.69 ⁵⁷	46.301 ⁶	5.30 ²⁰	57.26 ¹³	72.31 ³³⁶	58.456 ²¹	39.19 ¹⁸⁷
27	17.642 ⁴⁴	5.33 ³⁶	46.258 ⁴³	5.66 ³⁶	57.06 ²⁰	75.42 ³¹¹	58.378 ⁷⁸	41.06 ¹⁸⁷
Okt. 7	17.569 ⁷³	5.16 ¹⁷	46.183 ⁷⁵	6.13 ⁴⁷	56.80 ²⁶	78.20 ²⁷⁸	58.252 ¹²⁶	42.85 ¹⁷⁹
17	17.472 ⁹⁷	5.17 ¹	46.084 ⁹⁹	6.69 ⁵⁶	56.49 ³¹	80.60 ²⁴⁰	58.086 ¹⁶⁶	44.47 ¹⁶²
27	17.359 ¹¹³	5.34 ¹⁷	45.967 ¹¹⁷	7.30 ⁶¹	56.14 ³⁵	82.55 ¹⁹⁵	57.892 ¹⁹⁴	45.85 ¹³⁸
Nov. 6	17.238 ¹²¹	5.65 ³¹	45.842 ¹²⁵	7.92 ⁶²	55.76 ³⁸	84.01 ¹⁴⁶	57.681 ²¹¹	46.93 ¹⁰⁸
16	17.115 ¹²³	6.08 ⁴³	45.715 ¹²⁷	8.52 ⁶⁰	55.36 ⁴⁰	84.94 ⁹³	57.665 ²¹⁶	47.66 ⁷³
26	16.997 ¹¹⁸	6.61 ⁵³	45.593 ¹²²	9.08 ⁵⁶	54.96 ⁴⁰	85.30 ³⁶	57.465 ²¹⁰	48.01 ³⁵
Dez. 6	16.890 ¹⁰⁷	7.22 ⁶¹	45.483 ¹¹⁰	9.57 ⁴⁹	54.56 ⁴⁰	85.08 ²²	57.060 ¹⁹⁵	47.95 ⁶
16	16.799 ⁹¹	7.90 ⁶⁸	45.390 ⁹³	9.98 ⁴¹	54.18 ³⁸	84.29 ⁷⁹	56.890 ¹⁷⁰	47.48 ⁴⁷
26	16.726 ⁷³	8.63 ⁷³	45.317 ⁷³	10.30 ³²	53.83 ³⁵	82.94 ¹³⁵	56.751 ¹³⁹	46.63 ⁸⁵
36	16.675 ⁵¹	9.37 ⁷⁴	45.268 ⁴⁹	10.50 ²⁰	53.53 ³⁰	81.08 ¹⁸⁶	56.649 ¹⁰²	45.40 ¹²³
Mittl. Ort	14.433	20.83	42.768	18.49	54.60	54.89	53.569	46.51
sec δ , trig δ	1.000	—0.011	1.032	—0.253	2.162	+1.917	1.474	—1.084
a, a'	+3.1	+17.5	+3.2	+17.5	+1.8	+17.5	+3.8	+17.5
b, b'	0.00	+0.49	—0.01	+0.49	+0.11	+0.49	—0.06	+0.49

Tag	834) θ Pegasi		835) π Pegasi		836) ζ Cephei		837) α Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	22 ^h 6 ^m	+5° 51'	22 ^h 6 ^m	+32° 50'	22 ^h 8 ^m	+57° 51'	22 ^h 8 ^m	+71° 59'
Jan. I	41.962	22.28	53.678	22.39	24.918	45.64	24.84	73.28
II	41.919	21.27	53.588	20.55	24.687	43.53	24.34	71.23
21	41.900	20.24	53.527	18.50	24.505	41.04	23.94	68.75
31	41.908	19.25	53.499	16.31	24.380	38.27	23.64	65.91
Feb. 10	41.945	18.34	53.508	14.07	24.318	35.32	23.45	62.83
20	42.012	17.57	53.555	11.88	24.325	32.32	23.39	59.65
März 2	42.110	16.99	53.643	9.84	24.404	29.39	23.47	56.49
12	42.241	16.65	53.774	8.05	24.555	26.66	23.67	53.47
22	42.405	16.58	53.946	6.58	24.777	24.23	24.00	50.73
Apr. I	42.602	16.82	54.159	5.50	25.065	22.21	24.44	48.37
11	42.830	17.37	54.410	4.86	25.413	20.67	24.99	46.47
21	43.086	18.24	54.695	4.71	25.812	19.67	25.62	45.12
Mai I	43.368	19.42	55.007	5.05	26.252	19.25	26.31	44.36
11	43.669	20.88	55.341	5.87	26.720	19.43	27.05	44.20
21	43.983	22.58	55.688	7.16	27.203	20.19	27.80	44.66
31	44.304	24.48	56.040	8.87	27.688	21.52	28.55	45.71
Juni 10	44.623	26.52	56.387	10.97	28.161	23.37	29.28	47.32
20	44.934	28.65	56.720	13.38	28.609	25.69	29.96	49.46
30	45.227	30.82	57.032	16.04	29.020	28.42	30.57	52.05
Juli 10	45.497	32.96	57.314	18.89	29.385	31.48	31.11	55.04
20	45.735	35.03	57.560	21.85	29.694	34.80	31.55	58.34
30	45.937	36.98	57.764	24.86	29.941	38.31	31.89	61.88
Aug. 9	46.100	38.78	57.922	27.86	30.120	41.93	32.12	65.58
19	46.220	40.39	58.032	30.78	30.230	45.57	32.24	69.37
28	46.296	41.80	58.094	33.55	30.269	49.16	32.24	73.16
Sept. 7	46.330	42.98	58.108	36.14	30.239	52.63	32.13	76.88
17	46.324	43.93	58.078	38.49	30.145	55.91	31.91	80.44
27	46.283	44.65	58.009	40.57	29.991	58.93	31.59	83.78
Okt. 7	46.211	45.14	57.905	42.33	29.785	61.64	31.19	86.82
17	46.116	45.41	57.775	43.75	29.534	63.96	30.70	89.50
27	46.004	45.48	57.624	44.81	29.248	65.85	30.14	91.75
Nov. 6	45.884	45.35	57.460	45.47	28.936	67.25	29.54	93.52
16	45.761	45.03	57.291	45.73	28.609	68.14	28.91	94.74
26	45.641	44.54	57.123	45.57	28.276	68.48	28.25	95.39
Dez. 6	45.531	43.90	56.963	45.01	27.947	68.26	27.60	95.44
16	45.435	43.13	56.815	44.05	27.633	67.48	26.97	94.88
26	45.357	42.25	56.686	42.73	27.344	66.16	26.37	93.73
36	45.300	41.29	56.581	41.08	27.089	64.35	25.83	92.02
Mittl. Ort	43.157	27.71	55.249	20.48	27.441	38.25	29.09	63.87
sec δ , tg δ	1.005	+0.103	1.190	+0.645	1.880	+1.592	3.236	+3.078
α , α'	+3.0	+17.6	+2.7	+17.7	+2.1	+17.7	+1.1	+17.7
δ , δ'	+0.01	+0.47	+0.04	+0.47	+0.09	+0.47	+0.18	+0.47

Tag	840) δ Aquarii		841) α Tucanae		842) γ Aquarii		844) β Lacertae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	22 ^h 13 ^m	—8° 7'	22 ^h 13 ^m	—60° 35'	22 ^h 18 ^m	—1° 43'	22 ^h 20 ^m	+51° 52'
Jan. 1	10.582 ⁴¹	48.35 ⁴²	46.23 ¹⁶	96.51 ¹⁹⁴	4.494 ⁴⁶	75.93 ⁶⁸	48.475 ¹⁹⁰	65.15 ¹⁹⁶
11	10.541 ¹⁶	48.77 ³³	46.07 ¹⁰	94.57 ²³²	4.448 ²³	76.61 ⁶⁴	48.285 ¹⁵²	63.19 ²³³
21	10.525 ⁹	49.10 ²²	45.97 ⁴	92.25 ²⁶³	4.425 ²	77.25 ⁵⁶	48.133 ¹⁰⁶	60.86 ²⁶⁰
31	10.534 ³⁷	49.32 ⁷	45.93 ³	89.62 ²⁸⁶	4.427 ³⁰	77.81 ⁴⁴	48.027 ⁵⁴	58.26 ²⁷⁷
Feb. 10	10.571 ⁶⁷	49.39 ⁹	45.96 ⁹	86.76 ³⁰⁴	4.457 ⁵⁹	78.25 ²⁹	47.973 ³	55.49 ²⁸²
20	10.638 ⁹⁸	49.30 ²⁹	46.05 ¹⁵	83.72 ³¹⁵	4.516 ⁹⁰	78.54 ¹⁰	47.976 ⁶²	52.67 ²⁷⁷
März 2	10.736 ¹³⁰	49.01 ⁵⁰	46.20 ²²	80.57 ³¹⁹	4.606 ¹²²	78.64 ¹²	48.038 ¹²³	49.90 ²⁵⁸
12	10.866 ¹⁶²	48.51 ⁷³	46.42 ²⁸	77.38 ³¹⁶	4.728 ¹⁵⁴	78.52 ³⁷	48.161 ¹⁸⁴	47.32 ²²⁹
22	11.028 ¹⁹⁴	47.78 ⁹⁶	46.70 ³⁴	74.22 ³⁰⁷	4.882 ¹⁸⁸	78.15 ⁶³	48.345 ²⁴²	45.03 ¹⁹¹
Apr. 1	11.222 ²²⁶	46.82 ¹¹⁹	47.04 ⁴⁰	71.15 ²⁹²	5.070 ²²⁰	77.52 ⁹⁰	48.587 ²⁹⁸	43.12 ¹⁴⁵
11	11.448 ²⁵⁵	45.63 ¹⁴⁰	47.44 ⁴⁵	68.23 ²⁷⁰	5.290 ²⁴⁹	76.62 ¹¹⁷	48.885 ³⁴⁵	41.67 ⁹³
21	11.703 ²⁸¹	44.23 ¹⁵⁸	47.89 ⁴⁹	65.53 ²⁴⁴	5.539 ²⁷⁶	75.45 ¹⁴¹	49.230 ³⁸⁴	40.74 ³⁷
Mai 1	11.984 ³⁰²	42.65 ¹⁷³	48.38 ⁵²	63.09 ²¹³	5.815 ²⁹⁷	74.04 ¹⁶²	49.614 ⁴¹²	40.37 ²⁰
11	12.286 ³¹⁷	40.92 ¹⁸⁵	48.90 ⁵⁵	60.96 ¹⁷⁶	6.112 ³¹³	72.42 ¹⁷⁹	50.026 ⁴³⁰	40.57 ⁷⁶
21	12.603 ³²⁴	39.07 ¹⁹⁰	49.45 ⁵⁷	59.20 ¹³⁵	6.425 ³²¹	70.63 ¹⁹¹	50.456 ⁴³⁷	41.33 ¹³⁰
31	12.927 ³²⁶	37.17 ¹⁹²	50.02 ⁵⁷	57.85 ⁹¹	6.746 ³²²	68.72 ¹⁹⁹	50.893 ⁴³¹	42.63 ¹⁸⁰
Juni 10	13.253 ³¹⁸	35.25 ¹⁸⁷	50.59 ⁵⁵	56.94 ⁴⁶	7.068 ³¹⁵	66.73 ²⁰¹	51.324 ⁴¹³	44.43 ²²⁶
20	13.571 ³⁰³	33.38 ¹⁷⁹	51.14 ⁵³	56.48 ⁰	7.383 ³⁰¹	64.72 ¹⁹⁸	51.737 ³⁸⁶	46.69 ²⁶⁵
30	13.874 ²⁸¹	31.59 ¹⁶⁵	51.67 ⁴⁹	56.48 ⁴⁶	7.684 ²⁷⁸	62.74 ¹⁹⁰	52.123 ³⁴⁷	49.34 ²⁹⁶
Juli 10	14.155 ²⁵¹	29.94 ¹⁴⁸	52.16 ⁴⁴	56.94 ⁹¹	7.962 ²⁵⁰	60.84 ¹⁷⁷	52.470 ³⁰¹	52.30 ³²²
20	14.406 ²¹⁶	28.46 ¹²⁸	52.60 ³⁷	57.85 ¹³¹	8.212 ²¹⁵	59.07 ¹⁶¹	52.771 ²⁴⁸	55.52 ³³⁹
30	14.622 ¹⁷⁵	27.18 ¹⁰⁶	52.97 ³⁰	59.16 ¹⁶⁸	8.427 ¹⁷⁶	57.46 ¹⁴²	53.019 ¹⁹¹	58.91 ³⁴⁹
Aug. 9	14.797 ¹³³	26.12 ⁸³	53.27 ²²	60.84 ¹⁹⁸	8.603 ¹³⁴	56.04 ¹²¹	53.210 ¹³⁰	62.40 ³⁵¹
19	14.930 ⁸⁹	25.29 ⁵⁹	53.49 ¹⁴	62.82 ²²⁰	8.737 ⁹¹	54.83 ⁹⁸	53.340 ⁶⁹	65.91 ³⁴⁶
28	15.019 ⁴⁵	24.70 ³⁶	53.63 ⁵	65.02 ²³⁵	8.828 ⁴⁸	53.85 ⁷⁵	53.409 ⁸	69.37 ³³⁴
Sept. 7	15.064 ⁴	24.34 ¹⁵	53.68 ⁴	67.37 ²³⁹	8.876 ⁷	53.10 ⁵³	53.417 ⁴⁹	72.71 ³¹⁵
17	15.068 ³³	24.19 ³	53.64 ¹¹	69.76 ²³⁴	8.883 ²⁹	52.57 ³²	53.368 ¹⁰²	75.86 ²⁹¹
27	15.035 ⁶⁴	24.22 ²⁰	53.53 ¹⁸	72.10 ²²⁰	8.854 ⁶⁰	52.25 ¹²	53.266 ¹⁴⁹	78.77 ²⁶⁰
Okt. 7	14.971 ⁸⁹	24.42 ³³	53.35 ²⁴	74.30 ¹⁹⁵	8.794 ⁸⁵	52.13 ⁵	53.117 ¹⁸⁸	81.37 ²²⁴
17	14.882 ¹⁰⁷	24.75 ⁴³	53.11 ²⁹	76.25 ¹⁶³	8.709 ¹⁰³	52.18 ²¹	52.929 ²²⁰	83.61 ¹⁸²
27	14.775 ¹¹⁸	25.18 ⁵⁰	52.82 ³²	77.88 ¹²²	8.606 ¹¹⁴	52.39 ³³	52.709 ²⁴⁴	85.43 ¹³⁷
Nov. 6	14.657 ¹²¹	25.68 ⁵⁵	52.50 ³³	79.10 ⁷⁶	8.492 ¹¹⁸	52.72 ⁴⁴	52.465 ²⁵⁹	86.80 ⁸⁸
16	14.536 ¹¹⁷	26.23 ⁵⁷	52.17 ³³	79.86 ²⁷	8.374 ¹¹⁶	53.16 ⁵³	52.206 ²⁶⁶	87.68 ³⁶
26	14.419 ¹⁰⁸	26.80 ⁵⁶	51.84 ³²	80.13 ²⁴	8.258 ¹⁰⁸	53.69 ⁶⁰	51.940 ²⁶⁴	88.04 ¹⁷
Dez. 6	14.311 ⁹⁴	27.36 ⁵⁵	51.52 ²⁸	79.89 ⁷⁶	8.150 ⁹⁵	54.29 ⁶⁵	51.676 ²⁵³	87.87 ⁷⁰
16	14.217 ⁷⁷	27.91 ⁵²	51.24 ²⁴	79.13 ¹²⁴	8.055 ⁷⁹	54.94 ⁶⁸	51.423 ²³⁵	87.17 ¹²²
26	14.140 ⁵⁵	28.43 ⁴⁴	51.00 ²⁰	77.89 ¹⁷⁰	7.976 ⁵⁹	55.62 ⁶⁸	51.188 ²⁰⁸	85.95 ¹⁶⁸
36	14.085	28.87	50.80	76.19	7.917	56.30	50.980	84.27
Mittl. Ort	11.648	39.12	47.43	75.96	5.576	68.64	50.581	58.02
sec δ , tg δ	1.010	—0.143	2.037	—1.775	1.000	—0.030	1.620	+1.275
a, a'	+3.2	+17.9	+4.1	+17.9	+3.1	+18.1	+2.4	+18.2
b, b'	—0.01	+0.45	—0.11	+0.45	0.00	+0.43	+0.08	+0.42

Tag	848) 7 Lacertae		850) 7 Aquarii		852) 10 Lacertae		855) 5 Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	22 ^h 28 ^m	+49° 55'	22 ^h 31 ^m	—0° 28'	22 ^h 36 ^m	+38° 41'	22 ^h 37 ^m	+10° 28'
Jan. 1	24.733 ₁₈₂	45.31 ₁₈₇	47.652 ₅₆	31.99 ₇₂	8.160 ₁₂₉	31.39 ₁₆₉	60.108 ₆₇	11.23 ₁₀₆
11	24.551 ₁₄₆	43.44 ₂₂₃	47.596 ₃₄	32.71 ₆₇	8.031 ₁₀₃	29.70 ₁₉₈	60.041 ₄₇	10.17 ₁₁₂
21	24.405 ₁₀₅	41.21 ₂₅₀	47.562 ₁₀	33.38 ₆₀	7.928 ₇₁	27.72 ₂₁₉	59.994 ₂₃	9.05 ₁₁₃
31	24.300 ₅₇	38.71 ₂₆₈	47.552 ₁₆	33.98 ₅₀	7.857 ₃₄	25.53 ₂₃₂	59.971 ₃	7.92 ₁₀₈
Feb. 10	24.243 ₅	36.03 ₂₇₄	47.568 ₄₄	34.48 ₃₄	7.823 ₇	23.21 ₂₃₄	59.974 ₃₂	6.84 ₉₇
20	24.238	33.29 ₂₆₈	47.612 ₇₅	34.82 ₁₆	7.830 ₅₁	20.87 ₂₂₆	60.006 ₆₅	5.87 ₈₁
März 2	24.291 ₁₁₁	30.61 ₂₅₂	47.687 ₁₀₈	34.98 ₆	7.881 ₉₇	18.61 ₂₀₈	60.071 ₉₈	5.06 ₅₈
12	24.402 ₁₇₀	28.09 ₂₂₅	47.795 ₁₄₁	34.92 ₃₁	7.978 ₁₄₅	16.53 ₁₈₀	60.169 ₁₃₃	4.48 ₃₃
22	24.572 ₂₂₈	25.84 ₁₈₇	47.936 ₁₇₅	34.61 ₅₈	8.123 ₁₉₃	14.73 ₁₄₅	60.302 ₁₇₀	4.15 ₂
Apr. 1	24.800 ₂₈₀	23.97 ₁₄₂	48.111 ₂₀₈	34.03 ₈₅	8.316 ₂₃₈	13.28 ₁₀₂	60.472 ₂₀₄	4.13 ₃₀
11	25.080 ₃₂₈	22.55 ₉₂	48.319 ₂₄₀	33.18 ₁₁₂	8.554 ₂₇₈	12.26 ₅₆	60.676 ₂₃₈	4.43 ₆₅
21	25.408 ₃₆₇	21.63 ₃₈	48.559 ₂₆₈	32.06 ₁₃₇	8.832 ₃₁₃	11.70 ₆	60.914 ₂₆₆	5.08 ₉₈
Mai 1	25.775 ₃₉₈	21.25 ₁₈	48.827 ₂₉₁	30.69 ₁₆₀	9.145 ₃₄₂	11.64 ₄₅	61.180 ₂₉₁	6.06 ₁₃₀
11	26.173 ₄₁₆	21.43 ₇₄	49.118 ₃₀₉	29.09 ₁₇₈	9.487 ₃₆₁	12.09 ₉₄	61.471 ₃₁₀	7.36 ₁₅₈
21	26.589 ₄₂₅	22.17 ₁₂₇	49.427 ₃₂₀	27.31 ₁₉₂	9.848 ₃₇₁	13.03 ₁₄₂	61.781 ₃₂₁	8.94 ₁₈₃
31	27.014 ₄₂₂	23.44 ₁₇₆	49.747 ₃₂₃	25.39 ₂₀₂	10.219 ₃₇₂	14.45 ₁₈₄	62.102 ₃₂₅	10.77 ₂₀₃
Juni 10	27.436 ₄₆₇	25.20 ₂₂₁	50.070 ₃₁₈	23.37 ₂₀₅	10.591 ₃₆₂	16.29 ₂₂₂	62.427 ₃₂₀	12.80 ₂₁₇
20	27.843 ₃₈₂	27.41 ₂₆₀	50.388 ₃₀₆	21.32 ₂₀₃	10.953 ₃₄₅	18.51 ₂₅₄	62.747 ₃₀₇	14.97 ₂₂₅
30	28.225 ₃₄₇	30.01 ₂₉₁	50.694 ₂₈₅	19.29 ₁₉₆	11.298 ₃₁₇	21.05 ₂₈₀	63.054 ₂₈₇	17.22 ₂₂₉
Juli 10	28.572 ₃₀₄	32.92 ₃₁₇	50.979 ₂₅₈	17.33 ₁₈₅	11.615 ₂₈₂	23.85 ₂₉₈	63.341 ₂₆₀	19.51 ₂₂₆
20	28.876 ₂₅₅	36.09 ₃₃₄	51.237 ₂₂₆	15.48 ₁₇₀	11.897 ₂₄₁	26.83 ₃₁₀	63.601 ₂₂₇	21.77 ₂₁₈
30	29.131 ₁₉₉	39.43 ₃₄₄	51.463 ₁₈₇	13.78 ₁₅₁	12.138 ₁₉₆	29.93 ₃₁₅	63.828 ₁₈₈	23.95 ₂₀₆
Aug. 9	29.330 ₁₄₂	42.87 ₃₄₆	51.650 ₁₄₆	12.27 ₁₃₀	12.334 ₁₄₇	33.08 ₃₁₃	64.016 ₁₄₈	26.01 ₁₈₉
19	29.472 ₈₃	46.33 ₃₄₂	51.796 ₁₀₃	10.97 ₁₀₇	12.481 ₉₇	36.21 ₃₀₄	64.164 ₁₀₆	27.90 ₁₇₁
29	29.555 ₂₅	49.75 ₃₃₀	51.899 ₆₁	9.90 ₈₅	12.578 ₄₇	39.25 ₂₉₁	64.270 ₆₃	29.61 ₁₄₉
Sept. 7	29.580 ₃₁	53.05 ₃₁₃	51.960 ₂₀	9.05 ₆₂	12.625 ₁	42.16 ₂₇₁	64.333 ₂₃	31.10 ₁₂₇
17	29.549 ₈₂	56.18 ₂₈₈	51.980 ₁₆	8.43 ₃₉	12.624 ₄₄	44.87 ₂₄₆	64.356 ₁₄	32.37 ₁₀₂
27	29.467 ₁₂₈	59.06 ₂₅₉	51.964 ₄₉	8.04 ₁₉	12.580 ₈₃	47.33 ₂₁₈	64.342 ₄₇	33.39 ₇₈
Okt. 7	29.339 ₁₆₆	61.65 ₂₂₃	51.915 ₇₅	7.85 ₁	12.497 ₁₁₅	49.51 ₁₈₅	64.295 ₇₃	34.17 ₅₄
17	29.173 ₁₉₉	63.88 ₁₈₄	51.840 ₉₄	7.84 ₁₆	12.382 ₁₄₂	51.36 ₁₄₈	64.222 ₉₃	34.71 ₃₁
27	28.974 ₂₂₂	65.72 ₁₃₉	51.746 ₁₀₇	8.00 ₃₀	12.240 ₁₆₁	52.84 ₁₀₉	64.129 ₁₀₈	35.02 ₈
Nov. 6	28.752 ₂₃₈	67.11 ₉₂	51.639 ₁₁₄	8.30 ₄₂	12.079 ₁₇₄	53.93 ₆₆	64.021 ₁₁₅	35.10 ₁₄
16	28.514 ₂₄₆	68.03 ₄₁	51.525 ₁₁₄	8.72 ₅₁	11.905 ₁₈₀	54.59 ₂₃	63.906 ₁₁₇	34.96 ₃₄
26	28.268 ₂₄₅	68.44 ₁₁	51.411 ₁₀₈	9.23 ₅₉	11.725 ₁₇₉	54.82 ₂₁	63.789 ₁₁₄	34.62 ₅₄
Dez. 6	28.023 ₂₃₇	68.33 ₆₂	51.303 ₉₈	9.82 ₆₆	11.546 ₁₇₂	54.61 ₆₆	63.675 ₁₀₅	34.08 ₇₂
16	27.786 ₂₂₂	67.71 ₁₁₃	51.205 ₈₄	10.48 ₆₉	11.374 ₁₆₀	53.95 ₁₀₈	63.570 ₉₄	33.36 ₈₇
26	27.564 ₁₉₇	66.58 ₁₅₉	51.121 ₆₈	11.17 ₇₁	11.214 ₁₄₁	52.87 ₁₄₆	63.476 ₇₈	32.49 ₉₉
36	27.367	64.99	51.053	11.88	11.073	51.41	63.398	31.50
Mittl. Ort	26.706	38.07	48.674	25.47	9.721	26.33	61.198	14.19
sec δ, tg δ	1.553	+1.189	1.000	—0.008	1.281	+0.801	1.017	+0.185
a, a'	+2.5	+18.5	+3.1	+18.6	+2.7	+18.7	+3.0	+18.8
b, b'	+0.07	+0.39	0.00	+0.38	+0.05	+0.36	+0.01	+0.35

Tag	856) β Gruis		857) γ Pegasi		859) λ Pegasi		860) ε Gruis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	22 ^h 38 ^m	—47° 14'	22 ^h 39 ^m	+29° 51'	22 ^h 43 ^m	+23° 11'	22 ^h 44 ^m	—51° 40'
Jan. 1	32.413 ¹¹⁶	65.25 ¹²²	44.552 ¹⁰³	38.09 ¹⁵³	11.099 ⁸⁹	68.50 ¹³⁷	22.930 ¹⁴³	68.66 ¹³⁵
11	32.297 ⁸⁰	64.03 ¹⁵⁸	44.449 ⁷⁹	36.56 ¹⁷⁵	11.010 ⁶⁸	67.13 ¹⁵⁴	22.787 ¹⁰⁵	67.31 ¹⁷⁵
21	32.217 ⁴²	62.45 ¹⁹⁰	44.370 ⁵²	34.81 ¹⁹⁰	10.942 ⁴³	65.59 ¹⁶⁴	22.682 ⁶²	65.56 ²⁰⁹
31	32.175 ⁰	60.55 ²¹⁹	44.318 ²¹	32.91 ¹⁹⁸	10.899 ¹⁵	63.95 ¹⁶⁸	22.620 ¹⁶	63.47 ²³⁸
Feb. 10	32.175 ⁴⁴	58.36 ²⁴¹	44.297 ¹⁴	30.93 ¹⁹⁶	10.884 ¹⁸	62.27 ¹⁶⁴	22.604 ³¹	61.09 ²⁶³
20	32.219 ⁸⁸	55.95 ²⁶⁰	44.311 ⁵³	28.97 ¹⁸⁵	10.902 ⁵³	60.63 ¹⁵¹	22.635 ⁸⁰	58.46 ²⁸²
März 2	32.307 ¹³⁴	53.35 ²⁷³	44.364 ⁹³	27.12 ¹⁶⁶	10.955 ⁹⁰	59.12 ¹³¹	22.715 ¹³¹	55.64 ²⁹⁴
12	32.441 ¹⁸⁰	50.62 ²⁸¹	44.457 ¹³⁶	25.46 ¹³⁹	11.045 ¹³⁰	57.81 ¹⁰⁴	22.846 ¹⁸³	52.70 ³⁰²
22	32.621 ²²⁷	47.81 ²⁸⁴	44.593 ¹⁷⁸	24.07 ¹⁰⁴	11.175 ¹⁷⁰	56.77 ⁷²	23.029 ²³³	49.68 ³⁰²
Apr. 1	32.848 ²⁷²	44.97 ²⁸²	44.771 ²¹⁸	23.03 ⁶⁵	11.345 ²⁰⁸	56.05 ³⁴	23.262 ²⁸²	46.66 ²⁹⁷
11	33.120 ³¹⁴	42.15 ²⁷²	44.989 ²⁵⁶	22.38 ²¹	11.553 ²⁴⁴	55.71 ⁷	23.544 ³²⁹	43.69 ²⁸⁶
21	33.434 ³⁵³	39.43 ²⁵⁹	45.245 ²⁸⁹	22.17 ²⁴	11.797 ²⁷⁶	55.78 ⁴⁸	23.873 ³⁷²	40.83 ²⁷⁰
Mai 1	33.787 ³⁸⁵	36.84 ²³⁹	45.534 ³¹⁶	22.41 ⁷⁰	12.073 ³⁰²	56.26 ⁸⁹	24.245 ⁴⁰⁸	38.13 ²⁴⁷
11	34.172 ⁴¹¹	34.45 ²¹⁴	45.850 ³³⁵	23.11 ¹¹³	12.375 ³²¹	57.15 ¹²⁸	24.653 ⁴³⁶	35.66 ²¹⁸
21	34.583 ⁴²⁸	32.31 ¹⁸⁴	46.185 ³⁴⁶	24.24 ¹⁵⁵	12.696 ³³⁴	58.43 ¹⁶⁴	25.089 ⁴⁵⁶	33.48 ¹⁸⁵
31	35.011 ⁴³⁶	30.47 ¹⁵⁰	46.531 ³⁴⁹	25.79 ¹⁹¹	13.030 ³³⁷	60.07 ¹⁹⁵	25.545 ⁴⁶⁶	31.63 ¹⁴⁸
Juni 10	35.447 ⁴³³	28.97 ¹¹²	46.880 ³⁴²	27.70 ²²³	13.367 ³³²	62.02 ²²¹	26.011 ⁴⁶⁴	30.15 ¹⁰⁸
20	35.880 ⁴²⁰	27.85 ⁷²	47.222 ³²⁶	29.93 ²⁴⁸	13.699 ³¹⁹	64.23 ²⁴¹	26.475 ⁴⁵²	29.07 ⁶⁴
30	36.300 ³⁹⁵	27.13 ³⁰	47.548 ³⁰³	32.41 ²⁶⁷	14.018 ²⁹⁶	66.64 ²⁵⁶	26.927 ⁴²⁷	28.43 ¹⁹
Juli 10	36.695 ³⁶¹	26.83 ¹³	47.851 ²⁷²	35.08 ²⁸⁰	14.314 ²⁶⁹	69.20 ²⁶³	27.354 ³⁹²	28.24 ²⁵
20	37.056 ³¹⁹	26.96 ⁵³	48.123 ²³⁵	37.88 ²⁸⁵	14.583 ²³³	71.83 ²⁶⁴	27.746 ³⁴⁶	28.49 ⁶⁹
30	37.375 ²⁶⁷	27.49 ⁹²	48.358 ¹⁹³	40.73 ²⁸⁶	14.816 ¹⁹⁴	74.47 ²⁶¹	28.092 ²⁹²	29.18 ¹⁰⁹
Aug. 9	37.642 ²⁰⁹	28.41 ¹²⁶	48.551 ¹⁴⁹	43.59 ²⁸⁰	15.010 ¹⁵²	77.08 ²⁵¹	28.384 ²³¹	30.27 ¹⁴⁴
19	37.851 ¹⁴⁸	29.67 ¹⁵⁶	48.700 ¹⁰²	46.39 ²⁶⁸	15.162 ¹⁰⁸	79.59 ²³⁷	28.615 ¹⁶⁵	31.71 ¹⁷⁵
29	37.999 ⁸⁶	31.23 ¹⁷⁹	48.802 ⁵⁷	49.07 ²⁵²	15.270 ⁶⁴	81.96 ²¹⁹	28.780 ⁹⁶	33.46 ¹⁹⁷
Sept. 7	38.085 ²⁴	33.02 ¹⁹²	48.859 ¹³	51.59 ²³¹	15.334 ²²	84.15 ¹⁹⁸	28.876 ²⁹	35.43 ²¹³
17	38.109 ³⁵	34.94 ¹⁹⁹	48.872 ²⁷	53.90 ²⁰⁶	15.356 ¹⁷	86.13 ¹⁷⁴	28.905 ³⁵	37.56 ²¹⁷
27	38.074 ⁸⁷	36.93 ¹⁹⁷	48.845 ⁶³	55.96 ¹⁷⁹	15.339 ⁵¹	87.87 ¹⁴⁶	28.870 ⁹⁴	39.73 ²¹⁴
Okt. 7	37.987 ¹³²	38.90 ¹⁸⁶	48.782 ⁹²	57.75 ¹⁴⁸	15.288 ⁷⁹	89.33 ¹¹⁸	28.776 ¹⁴⁵	41.87 ²⁰¹
17	37.855 ¹⁶⁷	40.76 ¹⁶⁷	48.690 ¹¹⁶	59.23 ¹¹⁴	15.209 ¹⁰²	90.51 ⁸⁸	28.631 ¹⁸⁴	43.88 ¹⁸⁰
27	37.688 ¹⁹²	42.43 ¹³⁹	48.574 ¹³³	60.37 ⁷⁹	15.107 ¹¹⁸	91.39 ⁵⁶	28.447 ²¹⁵	45.68 ¹⁵⁰
Nov. 6	37.496 ²⁰⁷	43.82 ¹⁰⁷	48.441 ¹⁴⁴	61.16 ⁴³	14.989 ¹²⁸	91.95 ²⁵	28.232 ²³²	47.18 ¹¹⁴
16	37.289 ²¹⁰	44.89 ⁶⁹	48.297 ¹⁴⁹	61.59 ⁵	14.861 ¹³³	92.20 ⁷	28.000 ²³⁹	48.32 ⁷²
26	37.079 ²⁰³	45.58 ²⁸	48.148 ¹⁴⁸	61.64 ³²	14.728 ¹³¹	92.13 ³⁹	27.761 ²³⁴	49.04 ²⁸
Dez. 6	36.876 ¹⁸⁹	45.86 ¹⁴	48.000 ¹⁴¹	61.32 ⁶⁹	14.597 ¹²⁵	91.74 ⁶⁹	27.527 ²²⁰	49.32 ¹⁹
16	36.687 ¹⁶⁶	45.72 ⁵⁷	47.859 ¹²⁹	60.63 ¹⁰³	14.472 ¹¹⁴	91.05 ⁹⁷	27.307 ¹⁹⁷	49.13 ⁶⁶
26	36.521 ¹³⁷	45.15 ⁹⁹	47.730 ¹¹³	59.60 ¹³⁴	14.358 ⁹⁹	90.08 ¹²²	27.110 ¹⁶⁶	48.47 ¹¹⁰
36	36.384	44.16	47.617	58.26	14.259	88.86	26.944	47.37
Mittl. Ort	33.230	46.52	45.904	35.20	12.323	67.36	23.699	49.11
sec δ , tg δ	1.473	—1.082	1.153	+0.574	1.088	+0.429	1.613	—1.265
α , α'	+3.6	+18.8	+2.8	+18.8	+2.9	+18.9	+3.6	+19.0
δ , δ'	—0.07	+0.35	+0.04	+0.34	+0.03	+0.33	—0.08	+0.32

Tag	863) ι Cephei		864) λ Aquarii		865) ρ Indi		866) δ Aquarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	22 ^h 47 ^m	+65° 49'	22 ^h 48 ^m	—7° 56'	22 ^h 49 ^m	—70° 26'	22 ^h 50 ^m	—16° 11'
Jan. I	10.19 ³⁸	85.28 ¹⁶³	60.074 ⁶⁵	58.44 ⁴²	52.18 ³⁷	56.56 ²⁰⁰	58.596 ⁶⁸	28.31 ¹²
II	9.81 ³⁴	83.65 ²¹¹	60.009 ⁴⁵	58.86 ³¹	51.81 ²⁹	54.56 ²⁴⁶	58.528 ⁴⁷	28.43 ⁶
21	9.47 ²⁷	81.54 ²⁵¹	59.964 ²³	59.17 ¹⁹	51.52 ²¹	52.10 ²⁸⁵	58.481 ²⁵	28.37 ²⁴
31	9.20 ¹⁹	79.03 ²⁸⁰	59.941 ³	59.36 ⁴	51.31 ¹¹	49.25 ³¹⁶	58.456 ²	28.13 ⁴³
Feb. 10	9.01 ¹⁰	76.23 ²⁹⁸	59.944 ³⁰	59.40 ¹³	51.20 ²	46.09 ³³⁹	58.458 ²⁹	27.70 ⁶⁴
20	8.91 ¹	73.25 ³⁰⁴	59.974 ⁵⁹	59.27 ³³	51.18 ⁷	42.70 ³⁵⁴	58.487 ⁶⁰	27.06 ⁸⁴
März 2	8.90 ⁸	70.21 ²⁹⁷	60.033 ⁹²	58.94 ⁵⁵	51.25 ¹⁷	39.16 ³⁶²	58.547 ⁹³	26.22 ¹⁰⁶
12	8.98 ¹⁸	67.24 ²⁷⁷	60.125 ¹²⁶	58.39 ⁷⁸	51.42 ²⁷	35.54 ³⁶¹	58.640 ¹²⁷	25.16 ¹²⁶
22	9.16 ²⁸	64.47 ²⁴⁷	60.251 ¹⁶¹	57.61 ¹⁰¹	51.69 ³⁶	31.93 ³⁵²	58.767 ¹⁶³	23.90 ¹⁴⁶
Apr. I	9.44 ³⁷	62.00 ²⁰⁷	60.412 ¹⁹⁶	56.60 ¹²⁴	52.05 ⁴⁵	28.41 ³³⁸	58.930 ¹⁹⁹	22.44 ¹⁶⁵
II	9.81 ⁴⁴	59.93 ¹⁵⁸	60.608 ²²⁹	55.36 ¹⁴⁶	52.50 ⁵³	25.03 ³¹⁴	59.129 ²³²	20.79 ¹⁸¹
21	10.25 ⁵¹	58.35 ¹⁰⁴	60.837 ²⁵⁹	53.90 ¹⁶⁵	53.03 ⁶⁰	21.89 ²⁸⁶	59.361 ²⁶⁴	18.98 ¹⁹³
Mai I	10.76 ⁵⁵	57.31 ⁴⁷	61.096 ²⁸⁶	52.25 ¹⁸¹	53.63 ⁶⁷	19.03 ²⁵²	59.625 ²⁹⁰	17.05 ²⁰²
II	11.31 ⁵⁹	56.84 ¹³	61.382 ³⁰⁶	50.44 ¹⁹²	54.30 ⁷²	16.51 ²¹¹	59.915 ³¹³	15.03 ²⁰⁶
21	11.90 ⁶¹	56.97 ⁷¹	61.688 ³²⁰	48.52 ²⁰⁰	55.02 ⁷⁵	14.40 ¹⁶⁶	60.228 ³²⁷	12.97 ²⁰⁵
31	12.51 ⁶⁰	57.68 ¹²⁸	62.008 ³²⁷	46.52 ²⁰²	55.77 ⁷⁶	12.74 ¹¹⁸	60.555 ³³⁴	10.92 ¹⁹⁹
Juni 10	13.11 ⁵⁹	58.96 ¹⁸⁰	62.335 ³²⁵	44.50 ¹⁹⁹	56.53 ⁷⁷	11.56 ⁶⁷	60.889 ³³⁴	8.93 ¹⁸⁷
20	13.70 ⁵⁵	60.76 ²²⁹	62.660 ³¹⁶	42.51 ¹⁹⁰	57.30 ⁷⁵	10.89 ¹⁵	61.223 ³²⁵	7.06 ¹⁷¹
30	14.25 ⁵⁰	63.05 ²⁷¹	62.976 ²⁹⁸	40.61 ¹⁷⁷	58.05 ⁷¹	10.74 ³⁸	61.548 ³⁰⁸	5.35 ¹⁵²
Juli 10	14.75 ⁴⁴	65.76 ³⁰⁶	63.274 ²⁷⁴	38.84 ¹⁶⁰	58.76 ⁶⁵	11.12 ⁸⁸	61.856 ²⁸²	3.83 ¹²⁸
20	15.19 ³⁷	68.82 ³³⁵	63.548 ²⁴²	37.24 ¹⁴⁰	59.41 ⁵⁷	12.00 ¹³⁶	62.138 ²⁵²	2.55 ¹⁰¹
30	15.56 ²⁹	72.17 ³⁵⁵	63.790 ²⁰⁵	35.84 ¹¹⁶	59.98 ⁴⁸	13.36 ¹⁷⁹	62.390 ²¹⁴	1.54 ⁷⁴
Aug. 9	15.85 ²¹	75.72 ³⁶⁹	63.995 ¹⁶⁶	34.68 ⁹²	60.46 ³⁸	15.15 ²¹⁵	62.604 ¹⁷³	0.80 ⁴⁶
19	16.06 ¹³	79.41 ³⁷⁴	64.161 ¹¹³	33.76 ⁶⁶	60.84 ²⁶	17.30 ²⁴⁴	62.777 ¹²⁹	0.34 ¹⁸
29	16.19 ⁴	83.15 ³⁷²	64.284 ⁸⁰	33.10 ⁴²	61.10 ¹⁴	19.74 ²⁶⁴	62.906 ⁸⁵	0.16 ⁷
Sept. 7	16.23 ⁵	86.87 ³⁶²	64.364 ³⁹	32.68 ¹⁹	61.24 ¹	22.38 ²⁷³	62.991 ⁴²	0.23 ³¹
17	16.18 ¹²	90.49 ³⁴⁵	64.403 ⁰	32.49 ³	61.25 ¹⁰	25.11 ²⁷²	63.033 ²	0.54 ⁴⁹
27	16.06 ²⁰	93.94 ³²¹	64.403 ³³	32.52 ²¹	61.15 ²²	27.83 ²⁶¹	63.035 ³⁵	1.03 ⁶⁵
Okt. 7	15.86 ²⁶	97.15 ²⁹⁰	64.370 ⁶²	32.73 ³⁵	60.93 ³²	30.44 ²³⁷	63.000 ⁶⁴	1.68 ⁷⁵
17	15.60 ³²	100.05 ²⁵¹	64.308 ⁸⁴	33.08 ⁴⁷	60.61 ⁴⁰	32.81 ²⁰⁴	62.936 ⁸⁷	2.43 ⁸¹
27	15.28 ³⁷	102.56 ²⁰⁸	64.224 ¹⁰⁰	33.55 ⁵⁵	60.21 ⁴⁶	34.85 ¹⁶²	62.849 ¹⁰⁵	3.24 ⁸²
Nov. 6	14.91 ⁴¹	104.64 ¹⁵⁸	64.124 ¹⁰⁸	34.10 ⁶⁰	59.75 ⁵¹	36.47 ¹¹³	62.744 ¹¹⁴	4.06 ⁷⁹
16	14.50 ⁴³	106.22 ¹⁰⁴	64.016 ¹¹²	34.70 ⁶²	59.24 ⁵³	37.60 ⁵⁸	62.630 ¹¹⁷	4.85 ⁷²
26	14.07 ⁴⁵	107.26 ⁴⁷	63.904 ¹⁰⁹	35.32 ⁶²	58.71 ⁵³	38.18 ⁰	62.513 ¹¹⁵	5.57 ⁶³
Dez. 6	13.62 ⁴⁴	107.73 ¹³	63.795 ¹⁰¹	35.94 ⁵⁸	58.18 ⁵¹	38.18 ⁵⁹	62.398 ¹⁰⁷	6.20 ⁵⁰
16	13.18 ⁴³	107.60 ⁷²	63.694 ⁹⁰	36.52 ⁵³	57.67 ⁴⁷	37.59 ¹¹⁶	62.291 ⁹⁵	6.70 ³⁷
26	12.75 ⁴¹	106.88 ¹²⁹	63.604 ⁷⁵	37.05 ⁴⁶	57.20 ⁴²	36.43 ¹⁷¹	62.196 ⁸⁰	7.07 ²¹
36	12.34	105.59	63.529	37.51	56.78	34.72	62.116	7.28
Mittl. Ort	13.09	73.84	60.951	50.07	53.01	34.55	59.411	17.48
sec δ , tg δ	2.443	+2.229	1.010	—0.140	2.987	—2.815	1.041	—0.290
a, a'	+2.1	+19.0	+3.1	+19.1	+4.2	+19.1	+3.2	+19.1
b, b'	+0.14	+0.31	—0.01	+0.30	—0.18	+0.30	—0.02	+0.30

Tag	867) α Pisc. austr.		869) \circ Andromedae		870) β Pegasi		871) α Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	22 ^h 53 ^m	—29° 58'	22 ^h 58 ^m	+41° 57'	23 ^h 0 ^m	+27° 42'	23 ^h 1 ^m	+14° 49'
Jan. I	49.746 ⁸³	92.63 ⁴¹	43.015 ¹⁵⁶	24.00 ¹⁵¹	24.383 ¹⁰⁷	32.54 ¹³³	18.303 ⁸⁵	60.32 ¹⁰⁷
II	49.663 ⁶⁰	92.22 ⁶⁹	42.859 ¹³³	22.49 ¹⁸⁵	24.276 ⁸⁹	31.21 ¹⁵⁵	18.218 ⁶⁷	59.25 ¹¹⁸
21	49.603 ³⁴	91.53 ⁹⁶	42.726 ¹⁰³	20.64 ²¹²	24.187 ⁶⁵	29.66 ¹⁷¹	18.151 ⁴⁶	58.07 ¹²⁴
31	49.569 ⁴	90.57 ¹²²	42.623 ⁶⁷	18.52 ²²⁹	24.122 ³⁷	27.95 ¹⁷⁸	18.105 ²²	56.83 ¹²²
Feb. 10	49.565 ²⁷	89.35 ¹⁴⁵	42.556 ²⁶	16.23 ²³⁷	24.085 ⁴	26.17 ¹⁷⁹	18.083 ⁷	55.61 ¹¹⁶
20	49.592 ⁶⁰	87.90 ¹⁶⁸	42.530 ²⁰	13.86 ²³⁴	24.081 ³²	24.38 ¹⁷¹	18.090 ³⁸	54.45 ¹⁰²
März 2	49.652 ⁹⁷	86.22 ¹⁸⁷	42.550 ⁶⁹	11.52 ²²¹	24.113 ⁷¹	22.67 ¹⁵³	18.128 ⁷⁴	53.43 ⁸³
12	49.749 ¹³⁴	84.35 ²⁰³	42.619 ¹²¹	9.31 ¹⁹⁹	24.184 ¹¹³	21.14 ¹²⁹	18.202 ¹¹⁰	52.60 ⁵⁸
22	49.883 ¹⁷³	82.32 ²¹⁸	42.740 ¹⁷²	7.32 ¹⁶⁷	24.297 ¹⁵⁶	19.85 ⁹⁸	18.312 ¹⁴⁹	52.02 ²⁸
Apr. I	50.056 ²¹¹	80.14 ²²⁷	42.912 ²²³	5.65 ¹²⁸	24.453 ¹⁹⁷	18.87 ⁶¹	18.461 ¹⁸⁶	51.74 ⁵
11	50.267 ²⁴⁸	77.87 ²³³	43.135 ²⁶⁹	4.37 ⁸³	24.650 ²³⁷	18.26 ²¹	18.647 ²²²	51.79 ³⁹
21	50.515 ²⁸²	75.54 ²³⁵	43.404 ³⁰⁹	3.54 ³⁴	24.887 ²⁷³	18.05 ²²	18.869 ²⁵⁶	52.18 ⁷⁵
Mai I	50.797 ³¹¹	73.19 ²³¹	43.713 ³⁴³	3.20 ¹⁶	25.160 ³⁰²	18.27 ⁶⁶	19.125 ²⁸⁴	52.93 ¹¹⁰
11	51.108 ³³⁶	70.88 ²²²	44.056 ³⁶⁸	3.36 ⁶⁶	25.462 ³²⁶	18.93 ¹⁰⁷	19.409 ³⁰⁶	54.03 ¹⁴²
21	51.444 ³⁵²	68.66 ²⁰⁸	44.424 ³⁸³	4.02 ¹¹⁶	25.788 ³⁴⁰	20.00 ¹⁴⁶	19.715 ³²²	55.45 ¹⁷⁰
31	51.796 ³⁶²	66.58 ¹⁸⁹	44.807 ³⁸⁹	5.18 ¹⁶¹	26.128 ³⁴⁷	21.46 ¹⁸²	20.037 ³²⁸	57.15 ¹⁹⁵
Juni 10	52.158 ³⁶²	64.69 ¹⁶⁵	45.196 ³⁸³	6.79 ²⁰²	26.475 ³⁴⁴	23.28 ²¹²	20.365 ³²⁷	59.10 ²¹⁵
20	52.520 ³⁵³	63.04 ¹³⁷	45.579 ³⁶⁸	8.81 ²³⁸	26.819 ³³³	25.40 ²³⁷	20.692 ³¹⁸	61.25 ²²⁷
30	52.873 ³³⁶	61.67 ¹⁰⁶	45.947 ³⁴⁴	11.19 ²⁶⁸	27.152 ³¹³	27.77 ²⁵⁶	21.010 ³⁰¹	63.52 ²³⁵
Juli 10	53.209 ³¹⁰	60.61 ⁷²	46.291 ³¹²	13.87 ²⁹²	27.465 ²⁸⁶	30.33 ²⁶⁹	21.311 ²⁷⁶	65.87 ²³⁷
20	53.519 ²⁷⁶	59.89 ³⁷	46.603 ²⁷²	16.79 ³⁰⁷	27.751 ²⁵²	33.02 ²⁷⁵	21.587 ²⁴⁵	68.24 ²³⁴
30	53.795 ²³⁷	59.52 ³	46.875 ²²⁷	19.86 ³¹⁷	28.003 ²¹³	35.77 ²⁷⁵	21.832 ²⁰⁹	70.58 ²²⁵
Aug. 9	54.032 ¹⁹¹	59.49 ³⁰	47.102 ¹⁷⁹	23.03 ³²⁰	28.216 ¹⁷²	38.52 ²⁶⁹	22.041 ¹⁷⁰	72.83 ²¹³
19	54.223 ¹⁴⁴	59.79 ⁶¹	47.281 ¹²⁸	26.23 ³¹⁶	28.388 ¹²⁷	41.21 ²⁵⁹	22.211 ¹²⁸	74.96 ¹⁹⁶
29	54.367 ⁹⁴	60.40 ⁸⁷	47.409 ⁷⁷	29.39 ³⁰⁶	28.515 ⁸³	43.80 ²⁴⁴	22.339 ⁸⁶	76.92 ¹⁷⁶
Sept. 7	54.461 ⁴⁶	61.27 ¹⁰⁹	47.486 ²⁸	32.45 ²⁹⁰	28.598 ⁴⁰	46.24 ²²⁵	22.425 ⁴⁶	78.68 ¹⁵⁴
17	54.507 ¹	62.36 ¹²⁵	47.514 ¹⁹	35.35 ²⁶⁹	28.638 ¹	48.49 ²⁰¹	22.471 ⁷	80.22 ¹³¹
27	54.508 ⁴⁰	63.61 ¹³⁴	47.495 ⁶⁰	38.04 ²⁴³	28.637 ³⁷	50.50 ¹⁷⁶	22.478 ²⁶	81.53 ¹⁰⁶
Okt. 7	54.468 ⁷⁵	64.95 ¹³⁶	47.435 ⁹⁷	40.47 ²¹²	28.600 ⁶⁷	52.26 ¹⁴⁷	22.452 ⁵⁵	82.59 ⁸¹
17	54.393 ¹⁰³	66.31 ¹³²	47.338 ¹²⁸	42.59 ¹⁷⁷	28.533 ⁹³	53.73 ¹¹⁶	22.397 ⁷⁸	83.40 ⁵⁵
27	54.290 ¹²³	67.63 ¹²²	47.210 ¹⁵²	44.36 ¹³⁹	28.440 ¹¹³	54.89 ⁸³	22.319 ⁹⁶	83.95 ³¹
Nov. 6	54.167 ¹³⁵	68.85 ¹⁰⁵	47.058 ¹⁷⁰	45.75 ⁹⁶	28.327 ¹²⁶	55.72 ⁵⁰	22.223 ¹⁰⁷	84.26 ⁶
16	54.032 ¹⁴⁰	69.90 ⁸⁴	46.888 ¹⁸²	46.71 ⁵³	28.201 ¹³⁴	56.22 ¹⁵	22.116 ¹¹⁴	84.32 ¹⁸
26	53.892 ¹³⁷	70.74 ⁶⁰	46.706 ¹⁸⁷	47.24 ⁷	28.067 ¹³⁷	56.37 ²⁰	22.002 ¹¹⁵	84.14 ⁴¹
Dez. 6	53.755 ¹²⁹	71.34 ³³	46.519 ¹⁸⁶	47.31 ⁴⁰	27.930 ¹³⁵	56.17 ⁵⁴	21.887 ¹¹¹	83.73 ⁶²
16	53.626 ¹¹⁵	71.67 ⁴	46.333 ¹⁷⁹	46.91 ⁸⁴	27.795 ¹²⁷	55.63 ⁸⁷	21.776 ¹⁰⁴	83.11 ⁸²
26	53.511 ⁹⁷	71.71 ²⁴	46.154 ¹⁶⁵	46.07 ¹²⁶	27.668 ¹¹⁶	54.76 ¹¹⁶	21.672 ⁹²	82.29 ⁹⁹
36	53.414	71.47	45.989	44.81	27.552	53.60	21.580	81.30
Mittl. Ort	50.475	77.94	44.531	16.80	25.587	29.24	19.322	60.99
sec δ , tg δ	1.155	—0.577	1.345	+0.899	1.130	+0.525	1.035	+0.265
a, a'	+3.3	+19.2	+2.8	+19.3	+2.9	+19.4	+3.0	+19.4
b, b'	—0.04	+0.28	+0.06	+0.26	+0.03	+0.26	+0.02	+0.25

Tag	872) β Gruis		874) π Cephei		873) ϵ^2 Aquarii		875) Br 3077	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	23 ^h 2 ^m	−43° 53'	23 ^h 5 ^m	+75° 0'	23 ^h 5 ^m	−21° 32'	23 ^h 9 ^m	+56° 46'
Jan. I	59.271 ¹²⁸	55.24 ⁹⁰	37.64 ⁷⁰	65.42 ¹²⁸	45.501 ⁸¹	62.36 ⁵	55.154 ²⁶⁰	84.81 ¹⁴⁰
II	59.143 ⁹⁹	54.34 ¹²⁹	36.94 ⁶³	64.14 ¹⁸²	45.420 ⁶²	62.31 ²⁷	54.894 ²³¹	83.41 ¹⁸⁵
21	59.044 ⁶⁷	53.05 ¹⁶³	36.31 ⁵⁴	62.32 ²²⁹	45.358 ⁴⁰	62.04 ⁵¹	54.663 ¹⁹⁰	81.56 ²²³
31	58.977 ³¹	51.42 ¹⁹⁵	35.77 ⁴²	60.03 ²⁶⁷	45.318 ¹⁴	61.53 ⁷³	54.473 ¹⁴¹	79.33 ²⁵³
Feb. 10	58.946 ⁷	49.47 ²²¹	35.35 ²⁸	57.36 ²⁹⁴	45.304 ¹⁴	60.80 ⁹⁶	54.332 ⁸³	76.80 ²⁷¹
20	58.953 ⁴⁹	47.26 ²⁴⁴	35.07 ¹³	54.42 ³⁰⁸	45.318 ⁴⁵	59.84 ¹¹⁸	54.249 ¹⁸	74.09 ²⁷⁷
März 2	59.002 ⁹¹	44.82 ²⁶²	34.94 ³	51.34 ³¹⁰	45.363 ⁷⁸	58.66 ¹⁴⁰	54.231 ⁵³	71.32 ²⁷³
12	59.093 ¹³⁶	42.20 ²⁷⁵	34.97 ¹⁸	48.24 ²⁹⁸	45.441 ¹¹⁴	57.26 ¹⁶⁰	54.284 ¹²⁵	68.59 ²⁵⁶
22	59.229 ¹⁸²	39.45 ²⁸³	35.15 ³⁴	45.26 ²⁷⁵	45.555 ¹⁵¹	55.66 ¹⁷⁸	54.409 ¹⁹⁷	66.03 ²²⁸
Apr. I	59.411 ²²⁷	36.62 ²⁸⁵	35.49 ⁴⁹	42.51 ²⁴¹	45.706 ¹⁸⁸	53.88 ¹⁹⁵	54.606 ²⁶⁷	63.75 ¹⁹²
II	59.638 ²⁷¹	33.77 ²⁸²	35.98 ⁶¹	40.10 ¹⁹⁷	45.894 ²²⁵	51.93 ²⁰⁷	54.873 ³³⁰	61.83 ¹⁴⁷
21	59.909 ³¹¹	30.95 ²⁷³	36.59 ⁷²	38.13 ¹⁴⁷	46.119 ²⁵⁹	49.86 ²¹⁶	55.203 ³⁸⁶	60.36 ⁹⁷
Mai I	60.220 ³⁴⁷	28.22 ²⁵⁸	37.31 ⁸⁰	36.66 ⁹²	45.378 ²⁸⁸	47.70 ²²¹	55.589 ⁴³²	59.39 ⁴³
11	60.567 ³⁷⁷	25.64 ²³⁸	38.11 ⁸⁶	35.74 ³³	45.666 ³¹²	45.49 ²²⁰	56.021 ⁴⁶⁵	58.96 ¹³
21	60.944 ³⁹⁸	23.26 ²¹¹	38.97 ⁹⁰	35.41 ²⁷	46.978 ³³¹	43.29 ²¹⁴	56.486 ⁴⁸⁶	59.09 ⁶⁸
31	61.342 ⁴¹⁰	21.15 ¹⁸¹	39.87 ⁹⁰	35.68 ⁸⁵	47.309 ³⁴¹	41.15 ²⁰³	56.972 ⁴⁹⁴	59.77 ¹²²
Juni 10	61.752 ⁴¹⁴	19.34 ¹⁴⁵	40.77 ⁸⁸	36.53 ¹⁴¹	47.650 ³⁴³	39.12 ¹⁸⁸	57.466 ⁴⁸⁸	60.99 ¹⁷²
20	62.166 ⁴⁰⁶	17.89 ¹⁰⁷	41.65 ⁸³	37.94 ¹⁹⁴	47.993 ³³⁷	37.24 ¹⁶⁶	57.954 ⁴⁶⁹	62.71 ²¹⁸
30	62.572 ³⁸⁸	16.82 ⁶⁵	42.48 ⁷⁷	39.88 ²⁴¹	48.330 ³²²	35.58 ¹⁴²	58.423 ⁴³⁹	64.89 ²⁵⁸
Juli 10	62.960 ³⁶¹	16.17 ²³	43.25 ⁶⁸	42.29 ²⁸³	48.652 ²⁹⁹	34.16 ¹¹⁴	58.862 ³⁹⁹	67.47 ²⁹²
20	63.321 ³²⁴	15.94 ¹⁹	43.93 ⁵⁹	45.12 ³¹⁷	48.951 ²⁶⁸	33.02 ⁸³	59.261 ³⁴⁹	70.39 ³¹⁹
30	63.645 ²⁷⁹	16.13 ⁶⁰	44.52 ⁴⁷	48.29 ³⁴⁶	49.219 ²³³	32.19 ⁵²	59.610 ²⁹³	73.58 ³³⁹
Aug. 9	63.924 ²²⁸	16.73 ⁹⁸	44.99 ³⁵	51.75 ³⁶⁶	49.452 ¹⁹¹	31.67 ²¹	59.903 ²³¹	76.97 ³⁵¹
19	64.152 ¹⁷³	17.71 ¹³¹	45.34 ²²	55.41 ³⁷⁹	49.643 ¹⁴⁸	31.46 ⁹	60.134 ¹⁶⁸	80.48 ³⁵⁶
29	64.325 ¹¹⁴	19.02 ¹⁵⁸	45.56 ¹⁰	59.20 ³⁸⁴	49.791 ¹⁰²	31.55 ³⁷	60.302 ¹⁰²	84.04 ³⁵⁵
Sept. 7*)	64.439 ⁵⁶	20.60 ¹⁷⁹	45.66 ³	63.04 ³⁸¹	49.893 ⁵⁷	31.92 ⁶¹	60.404 ³⁹	87.59 ³⁴⁶
17	64.495 ⁰	22.39 ¹⁹¹	45.63 ¹⁶	66.85 ³⁷¹	49.950 ¹⁵	32.53 ⁸⁰	60.443 ²²	91.05 ³³⁰
27	64.495 ⁵¹	24.30 ¹⁵⁶	45.47 ²⁸	70.56 ³⁵²	49.965 ²²	33.33 ⁹⁵	60.421 ⁸⁰	94.35 ³⁰⁷
Okt. 7	64.444 ⁹⁶	26.26 ¹⁹¹	45.19 ³⁹	74.08 ³²⁷	49.943 ⁵⁶	34.28 ¹⁰³	60.341 ¹³¹	97.42 ²⁷⁹
17	64.348 ¹³²	28.17 ¹⁷⁷	44.80 ⁴⁹	77.35 ²⁹⁴	49.887 ⁸²	35.31 ¹⁰⁷	60.210 ¹⁷⁶	100.21 ²⁴⁴
27	64.216 ¹⁶¹	29.94 ¹⁵⁷	44.31 ⁵⁸	80.29 ²⁵³	49.805 ¹⁰¹	36.38 ¹⁰⁴	60.034 ²¹⁵	102.65 ²⁰³
Nov. 6	64.055 ¹⁷⁸	31.51 ¹²⁸	43.73 ⁶⁵	82.82 ²⁰⁵	49.704 ¹¹⁴	37.42 ⁹⁶	59.819 ²⁴⁵	104.68 ¹⁵⁷
16	63.877 ¹⁸⁸	32.79 ⁹⁴	43.08 ⁷¹	84.87 ¹⁵³	49.590 ¹²¹	38.38 ⁸⁴	59.574 ²⁶⁸	106.25 ¹⁰⁸
26	63.689 ¹⁸⁸	33.73 ⁵⁷	42.37 ⁷⁵	86.40 ⁹⁵	49.469 ¹²¹	39.22 ⁶⁹	59.306 ²⁸³	107.33 ⁵⁶
Dez. 6	63.501 ¹⁸⁰	34.30 ¹⁶	41.62 ⁷⁷	87.35 ³⁴	49.348 ¹¹⁵	39.91 ⁵¹	59.023 ²⁸⁹	107.89 ⁰
16	63.321 ¹⁶⁵	34.46 ²⁶	40.85 ⁷⁶	87.69 ²⁸	49.233 ¹⁰⁶	40.42 ³⁰	58.734 ²⁸⁴	107.89 ⁵⁵
26	63.156 ¹⁴⁴	34.20 ⁶⁷	40.09 ⁷³	87.41 ⁹⁰	49.127 ⁹¹	40.72 ⁸	58.450 ²⁷¹	107.34 ¹⁰⁷
36	63.012	33.53	39.36	86.51	49.036	40.80	58.179	106.27
Mittl. Ort	59.876	37.26	41.85	51.53	46.193	50.22	57.157	73.52
sec δ , tg δ	1.388	−0.962	3.867	+3.736	1.075	−0.395	1.826	+1.527
a, a'	+3.4	+19.4	+1.9	+19.5	+3.2	+19.5	+2.6	+19.6
b, b'	−0.06	+0.25	+0.24	+0.23	−0.03	+0.23	+0.10	+0.22

*) Bei Stern 874), 873) und 875) lies Sept. 8

Tag	877) γ Tucanae		879) γ Sculptoris		880) τ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	23 ^h 13 ^m	—58° 36'	23 ^h 15 ^m	—32° 54'	23 ^h 17 ^m	+23° 21'
Jan. 1	24.300 ²²⁹	72.26 ¹³⁶	5.562 ¹⁰⁵	44.82 ⁴¹	12.096 ¹⁰⁶	46.98 ¹¹⁵
11	24.071 ¹⁸⁹	70.90 ¹⁸³	5.457 ⁸⁴	44.41 ⁷³	11.990 ⁹⁰	45.83 ¹³⁵
21	23.882 ¹⁴³	69.07 ²²⁴	5.373 ⁵⁹	43.68 ¹⁰⁵	11.900 ⁷⁰	44.48 ¹⁴⁷
31	23.739 ⁹²	66.83 ²⁶⁰	5.314 ³²	42.63 ¹³⁴	11.830 ⁴⁶	43.01 ¹⁵³
Feb. 10	23.647 ³⁶	64.23 ²⁸⁸	5.282 ¹	41.29 ¹⁶⁰	11.784 ¹⁷	41.48 ¹⁵⁴
20	23.611 ²¹	61.35 ³¹¹	5.281 ³³	39.69 ¹⁸⁴	11.767 ¹⁷	39.94 ¹⁴⁵
März 2	23.632 ⁸¹	58.24 ³²⁷	5.314 ⁷⁰	37.85 ²⁰⁶	11.784 ⁵⁴	38.49 ¹²⁹
12	23.713 ¹⁴⁴	54.97 ³³⁶	5.384 ¹⁰⁹	35.79 ²²⁴	11.838 ⁹⁴	37.20 ¹⁰⁷
22	23.857 ²⁰⁶	51.61 ³³⁸	5.493 ¹⁵⁰	33.55 ²³⁸	11.932 ¹³⁶	36.13 ⁷⁸
April 1	24.063 ²⁶⁸	48.23 ³³³	5.643 ¹⁹¹	31.17 ²⁴⁸	12.068 ¹⁷⁷	35.35 ⁴⁴
11	24.331 ³²⁷	44.90 ³²²	5.834 ²³¹	28.69 ²⁵⁴	12.245 ²¹⁸	34.91 ⁶
21	24.658 ³⁸²	41.68 ³⁰³	6.065 ²⁶⁸	26.15 ²⁵⁵	12.463 ²⁵⁴	34.85 ³³
Mai 1	25.040 ⁴³⁰	38.65 ²⁷⁹	6.333 ³⁰²	23.60 ²⁵⁰	12.717 ²⁸⁶	35.18 ⁷²
11	25.470 ⁴⁷¹	35.86 ²⁴⁸	6.635 ³³⁰	21.10 ²³⁹	13.003 ³¹¹	35.90 ¹¹⁰
21	25.941 ⁵⁰²	33.38 ²¹²	6.965 ³⁵¹	18.71 ²²⁴	13.314 ³²⁹	37.00 ¹⁴⁶
31	26.443 ⁵²²	31.26 ¹⁷⁰	7.316 ³⁶⁴	16.47 ²⁰³	13.643 ³³⁹	38.46 ¹⁷⁹
Juni 10	26.965 ⁵²⁹	29.56 ¹²⁶	7.680 ³⁶⁹	14.44 ¹⁷⁶	13.982 ³³⁹	40.25 ²⁰⁵
20	27.494 ⁵²³	28.30 ⁷⁸	8.049 ³⁶⁵	12.68 ¹⁴⁶	14.321 ³³²	42.30 ²²⁷
30	28.017 ⁵⁰³	27.52 ²⁸	8.414 ³⁵¹	11.22 ¹¹²	14.653 ³¹⁶	44.57 ²⁴⁴
Juli 10	28.520 ⁴⁷¹	27.24 ²²	8.765 ³²⁸	10.10 ⁷⁶	14.969 ²⁹²	47.01 ²⁵³
20	28.991 ⁴²⁶	27.46 ⁷⁰	9.093 ²⁹⁷	9.34 ³⁸	15.261 ²⁶²	49.54 ²⁵⁸
30	29.417 ³⁶⁹	28.16 ¹¹⁵	9.390 ²⁵⁹	8.96 ⁰	15.523 ²²⁶	52.12 ²⁵⁶
Aug. 9	29.786 ³⁰⁴	29.31 ¹⁵⁷	9.649 ²¹⁶	8.96 ³⁶	15.749 ¹⁸⁷	54.68 ²⁵⁰
19	30.090 ²³⁰	30.88 ¹⁹²	9.865 ¹⁶⁸	9.32 ⁷⁰	15.936 ¹⁴⁵	57.18 ²³⁸
29	30.320 ¹⁵²	32.80 ²²⁰	10.033 ¹¹⁹	10.02 ¹⁰⁰	16.081 ¹⁰²	59.56 ²²²
Sept. 8	30.472 ⁷³	35.00 ²³⁹	10.152 ⁶⁹	11.02 ¹²⁴	16.183 ⁶¹	61.78 ²⁰³
17	30.545 ⁵	37.39 ²⁴⁹	10.221 ²²	12.26 ¹⁴²	16.244 ²¹	63.81 ¹⁸¹
27	30.540 ⁷⁹	39.88 ²⁴⁷	10.243 ²²	13.68 ¹⁵³	16.265 ¹⁵	65.62 ¹⁵⁶
Okt. 7	30.461 ¹⁴⁵	42.35 ²³⁶	10.221 ⁶⁰	15.21 ¹⁵⁶	16.250 ⁴⁵	67.18 ¹³⁰
17	30.316 ²⁰¹	44.71 ²¹⁵	10.161 ⁹²	16.77 ¹⁵³	16.205 ⁷²	68.48 ¹⁰²
27	30.115 ²⁴⁶	46.86 ¹⁸⁴	10.069 ¹¹⁷	18.30 ¹⁴¹	16.133 ⁹²	69.50 ⁷²
Nov. 6	29.869 ²⁷⁸	48.70 ¹⁴⁵	9.952 ¹³³	19.71 ¹²⁴	16.041 ¹⁰⁸	70.22 ⁴³
16	29.591 ²⁹⁷	50.15 ¹⁰⁰	9.819 ¹⁴²	20.95 ¹⁰¹	15.933 ¹¹⁸	70.65 ¹²
26	29.294 ³⁰³	51.15 ⁵⁰	9.677 ¹⁴⁵	21.96 ⁷⁴	15.815 ¹²⁴	70.77 ¹⁸
Dez. 6	28.991 ²⁹⁷	51.65 ²	9.532 ¹⁴¹	22.70 ⁴⁴	15.691 ¹²³	70.59 ⁴⁸
16	28.694 ²⁸⁰	51.63 ⁵⁵	9.391 ¹³¹	23.14 ¹¹	15.568 ¹²⁰	70.11 ⁷⁶
26	28.414 ²⁵²	51.08 ¹⁰⁷	9.260 ¹¹⁷	23.25 ²²	15.448 ¹¹²	69.35 ¹⁰¹
36	28.162	50.01	9.143	23.03	15.336	68.34
Mittl. Ort	24.736	51.61	6.125	29.65	13.138	44.23
sec δ , tg δ	1.920	—1.639	1.191	—0.647	1.089	+0.432
a, a'	+3.5	+19.6	+3.2	+19.7	+3.0	+19.7
b, b'	—0.11	+ 0.20	—0.04	+ 0.19	+0.03	+ 0.19

Tag	882) 4 Cassiopeiae		884) α Piscium		885) 70 Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	23 ^h 21 ^m	+61° 53'	23 ^h 23 ^m	+0° 52'	23 ^h 25 ^m	+12° 22'
Jan. I	43.63 ³⁴	86.50 ¹²²	22.947 ⁸²	34.96 ⁶⁸	38.933 ⁹²	46.06 ⁹²
II	43.29 ³¹	85.28 ¹⁷³	22.865 ⁷⁰	34.28 ⁶⁴	38.841 ⁷⁸	45.14 ¹⁰¹
21	42.98 ²⁶	83.55 ²¹⁵	22.795 ⁵²	33.64 ⁵⁸	38.763 ⁶²	44.13 ¹⁰⁴
31	42.72 ²¹	81.40 ²⁵⁰	22.743 ³¹	33.06 ⁴⁸	38.701 ⁴⁰	43.09 ¹⁰³
Feb. 10	42.51 ¹⁴	78.90 ²⁷³	22.712 ⁶	32.58 ³⁵	38.661 ¹⁵	42.06 ⁹⁶
20	42.37 ⁷	76.17 ²⁸⁵	22.706 ²²	32.23 ¹⁷	38.646 ¹⁶	41.10 ⁸⁴
März 2	42.30 ²	73.32 ²⁸⁶	22.728 ⁵⁴	32.06 ³	38.662 ⁴⁸	40.26 ⁶⁶
12	42.32 ¹⁰	70.46 ²⁷³	22.782 ⁸⁹	32.09 ²⁶	38.710 ⁸⁶	39.60 ⁴³
22	42.42 ¹⁹	67.73 ²⁵⁰	22.871 ¹²⁶	32.35 ⁵³	38.796 ¹²⁵	39.17 ¹⁵
Apr. I	42.61 ²⁷	65.23 ²¹⁶	22.997 ¹⁶⁴	32.88 ⁷⁹	38.921 ¹⁶³	39.02 ¹⁵
II	42.88 ³⁵	63.07 ¹⁷⁵	23.161 ²⁰⁰	33.67 ¹⁰⁶	39.084 ²⁰²	39.17 ⁴⁶
21	43.23 ⁴¹	61.32 ¹²⁵	23.361 ²³⁴	34.73 ¹³²	39.286 ²³⁷	39.63 ⁸⁰
Mai I	43.64 ⁴⁷	60.07 ⁷²	23.595 ²⁶⁵	36.05 ¹⁵⁵	39.523 ²⁶⁹	40.43 ¹¹²
II	44.11 ⁵¹	59.35 ¹⁶	23.860 ²⁹¹	37.60 ¹⁷⁵	39.792 ²⁹⁵	41.55 ¹⁴²
21	44.62 ⁵⁴	59.19 ⁴⁰	24.151 ³¹⁰	39.35 ¹⁹²	40.087 ³¹⁴	42.97 ¹⁶⁸
31	45.16 ⁵⁵	59.59 ⁹⁶	24.461 ³²¹	41.27 ²⁰⁴	40.401 ³²⁵	44.65 ¹⁹¹
Juni 10	45.71 ⁵⁴	60.55 ¹⁴⁹	24.782 ³²⁴	43.31 ²¹⁰	40.726 ³²⁸	46.56 ²⁰⁸
20	46.25 ⁵³	62.04 ¹⁹⁸	25.106 ³²¹	45.41 ²¹⁰	41.054 ³²⁴	48.64 ²²⁰
30	46.78 ⁵⁰	64.02 ²⁴¹	25.427 ³⁰⁷	47.51 ²⁰⁶	41.378 ³¹⁰	50.84 ²²⁷
Juli 10	47.28 ⁴⁵	66.43 ²⁸⁰	25.734 ²⁸⁷	49.57 ¹⁹⁷	41.688 ²⁸⁹	53.11 ²²⁷
20	47.73 ⁴⁰	69.23 ³¹¹	26.021 ²⁶¹	51.54 ¹⁸²	41.977 ²⁶²	55.38 ²²⁴
30	48.13 ³⁴	72.34 ³³⁵	26.282 ²²⁸	53.36 ¹⁶⁵	42.239 ²²⁹	57.62 ²¹⁴
Aug. 9	48.47 ²⁷	75.69 ³⁵²	26.510 ¹⁹¹	55.01 ¹⁴⁵	42.468 ¹⁹²	59.76 ²⁰¹
19	48.74 ²⁰	79.21 ³⁶²	26.701 ¹⁵²	56.46 ¹²²	42.660 ¹⁵²	61.77 ¹⁸⁴
29	48.94 ¹³	82.83 ³⁶⁵	26.853 ¹¹¹	57.68 ⁹⁸	42.812 ¹¹²	63.61 ¹⁶⁴
Sept. 8	49.07 ¹²	86.48 ³⁵⁹	26.964 ⁷²	58.66 ⁷³	42.924 ⁷²	65.25 ¹⁴²
17	49.12 ²	90.07 ³⁴⁸	27.036 ³⁴	59.39 ⁵⁰	42.996 ³⁴	66.67 ¹¹⁹
27	49.10 ⁹	93.55 ³²⁸	27.070 ¹	59.89 ²⁸	43.030 ¹	67.86 ⁹⁶
Okt. 7	49.01 ¹⁵	96.83 ³⁰³	27.069 ³¹	60.17 ⁸	43.029 ³⁰	68.82 ⁷²
17	48.86 ²⁰	99.86 ²⁶⁹	27.038 ⁵⁶	60.25 ⁹	42.999 ⁵⁶	69.54 ⁴⁹
27	48.66 ²⁵	102.55 ²³¹	26.982 ⁷⁵	60.16 ²⁶	42.943 ⁷⁶	70.03 ²⁶
Nov. 6	48.41 ²⁹	104.86 ¹⁸⁶	26.907 ⁸⁹	59.90 ³⁸	42.867 ⁹¹	70.29 ⁴
16	48.12 ³²	106.72 ¹³⁶	26.818 ⁹⁸	59.52 ⁴⁸	42.776 ¹⁰¹	70.33 ¹⁷
26	47.80 ³⁴	108.08 ⁸²	26.720 ¹⁰²	59.04 ⁵⁷	42.675 ¹⁰⁷	70.16 ³⁶
Dez. 6	47.46 ³⁶	108.90 ²⁶	26.618 ¹⁰¹	58.47 ⁶³	42.568 ¹⁰⁷	69.80 ⁵⁵
16	47.10 ³⁶	109.16 ³¹	26.517 ⁹⁷	57.84 ⁶⁶	42.461 ¹⁰⁴	69.25 ⁷¹
26	46.74 ³⁵	108.85 ⁸⁸	26.420 ⁸⁹	57.18 ⁶⁷	42.357 ⁹⁷	68.54 ⁸⁵
36	46.39	107.97	26.331	56.51	42.260	67.69
Mittl. Ort	45.84	73.52	23.705	39.43	39.793	46.55
sec δ , tg δ	2.123	+1.873	1.000	+0.015	1.024	+0.219
a, a'	+2.7	+19.8	+3.1	+19.8	+3.0	+19.8
b, b'	+0.12	+0.17	0.00	+0.16	+0.01	+0.15

Tag	891) ι Andromedae		892) ι Piscium		893) γ Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	23 ^h 34 ^m	+42° 52'	23 ^h 36 ^m	+5° 15'	23 ^h 36 ^m	+77° 14'
Jan. I	43.478 ¹⁷⁵	78.40 ¹¹⁶	23.282 ⁸⁹	4.86 ⁷⁶	25.76 ⁸⁸	66.03 ⁸¹
II	43.303 ¹⁶⁰	77.24 ¹⁵⁴	23.193 ⁷⁸	4.10 ⁷⁷	24.88 ⁸²	65.22 ¹³⁹
2I	43.143 ¹³⁷	75.70 ¹⁸⁴	23.115 ⁶³	3.33 ⁷⁴	24.06 ⁷²	63.83 ¹⁹²
3I	43.006 ¹⁰⁷	73.86 ²⁰⁷	23.052 ⁴³	2.59 ⁶⁸	23.34 ⁶⁰	61.91 ²³⁸
Feb. IO	42.899 ⁷⁰	71.79 ²²²	23.009 ²⁰	1.91 ⁵⁸	22.74 ⁴⁶	59.53 ²⁷²
20	42.829 ²⁶	69.57 ²²⁶	22.989 ⁸	1.33 ⁴³	22.28 ²⁹	56.81 ²⁹⁶
März 2	42.803 ²³	67.31 ²²¹	22.997 ⁴¹	0.90 ²³	21.99 ¹¹	53.85 ³⁰⁶
12	42.826 ⁷⁵	65.10 ²⁰⁵	23.038 ⁷⁶	0.67 ¹	21.88 ⁸	50.79 ³⁰⁴
22	42.901 ¹³⁰	63.05 ¹⁸⁰	23.114 ¹¹⁴	0.66 ²⁵	21.96 ²⁷	47.75 ²⁸⁹
Apr. I	43.031 ¹⁸⁵	61.25 ¹⁴⁸	23.228 ¹⁵²	0.91 ⁵³	22.23 ⁴⁴	44.86 ²⁶³
II	43.216 ²³⁶	59.77 ¹⁰⁸	23.380 ¹⁹⁰	1.44 ⁸¹	22.67 ⁶¹	42.23 ²²⁷
2I	43.452 ²⁸⁴	58.69 ⁶³	23.570 ²²⁷	2.25 ¹¹⁰	23.28 ⁷⁵	39.96 ¹⁸³
Mai I	43.736 ³²⁴	58.06 ¹⁶	23.797 ²⁵⁹	3.35 ¹³⁷	24.03 ⁸⁶	38.13 ¹³¹
II	44.060 ³⁵⁷	57.90 ³²	24.056 ²⁸⁶	4.72 ¹⁶⁰	24.89 ⁹⁶	36.82 ⁷⁶
2I	44.417 ³⁸¹	58.22 ⁸¹	24.342 ³⁰⁷	6.32 ¹⁸¹	25.85 ¹⁰²	36.06 ¹⁸
3I	44.798 ³⁹⁴	59.03 ¹²⁸	24.649 ³²⁰	8.13 ¹⁹⁷	26.87 ¹⁰⁴	35.88 ⁴¹
Juni IO	45.192 ³⁹⁷	60.31 ¹⁷⁰	24.969 ³²⁶	10.10 ²⁰⁸	27.91 ¹⁰⁴	36.29 ⁹⁸
20	45.589 ³⁹⁰	62.01 ²⁰⁸	25.295 ³²³	12.18 ²¹³	28.95 ¹⁰²	37.27 ¹⁵²
30	45.979 ³⁷²	64.09 ²⁴²	25.618 ³¹²	14.31 ²¹³	29.97 ⁹⁶	38.79 ²⁰³
Juli IO	46.351 ³⁴⁶	66.51 ²⁶⁸	25.930 ²⁹⁴	16.44 ²⁰⁸	30.93 ⁸⁸	40.82 ²⁴⁹
20	46.697 ³¹²	69.19 ²⁸⁹	26.224 ²⁶⁸	18.52 ¹⁹⁸	31.81 ⁷⁸	43.31 ²⁸⁹
30	47.009 ²⁷²	72.08 ³⁰⁴	26.492 ²³⁸	20.50 ¹⁸⁴	32.59 ⁶⁶	46.20 ³¹³
Aug. 9	47.281 ²²⁷	75.12 ³¹¹	26.730 ²⁰²	22.34 ¹⁶⁶	33.25 ⁵⁴	49.43 ³⁵⁰
19	47.508 ¹⁷⁹	78.23 ³¹³	26.932 ¹⁶³	24.00 ¹⁴⁵	33.79 ³⁹	52.93 ³⁷⁰
29	47.687 ¹²⁹	81.36 ³⁰⁸	27.095 ¹²⁴	25.45 ¹²³	34.18 ²⁵	56.63 ³⁸¹
Sept. 8	47.816 ⁸¹	84.44 ²⁹⁷	27.219 ⁸⁵	26.68 ¹⁰⁰	34.43 ¹⁶	60.44 ³⁸⁶
17	47.897 ³³	87.41 ²⁸⁰	27.304 ⁴⁷	27.68 ⁷⁶	34.54 ⁴	64.30 ³⁸²
27	47.930 ¹¹	90.21 ²⁶⁰	27.351 ¹²	28.44 ⁵³	34.50 ¹⁹	68.12 ³⁷²
Okt. 7	47.919 ⁵⁰	92.81 ²³³	27.363 ¹⁹	28.97 ³²	34.31 ³³	71.84 ³⁵²
17	47.869 ⁸⁷	95.14 ²⁰³	27.344 ⁴⁴	29.29 ¹²	33.98 ⁴⁵	75.36 ³²⁵
27	47.782 ¹¹⁷	97.17 ¹⁶⁸	27.300 ⁶⁵	29.41 ⁷	33.53 ⁵⁷	78.61 ²⁹⁰
Nov. 6	47.665 ¹⁴¹	98.85 ¹²⁹	27.235 ⁸²	29.34 ²³	32.96 ⁶⁸	81.51 ²⁴⁸
16	47.524 ¹⁶⁰	100.14 ⁸⁸	27.153 ⁹²	29.11 ³⁷	32.28 ⁷⁷	83.99 ¹⁹⁸
26	47.364 ¹⁷⁴	101.02 ⁴³	27.061 ⁹⁸	28.74 ⁵⁰	31.51 ⁸⁴	85.97 ¹⁴⁴
Dez. 6	47.190 ¹⁸²	101.45 ¹	26.963 ¹⁰¹	28.24 ⁵⁹	30.67 ⁸⁸	87.41 ⁸⁴
16	47.008 ¹⁸⁴	101.44 ⁴⁶	26.862 ⁹⁹	27.65 ⁶⁸	29.79 ⁹⁰	88.25 ²¹
26	46.824 ¹⁷⁹	100.98 ⁹⁰	26.763 ⁹⁴	26.97 ⁷⁴	28.89 ⁸⁹	88.46 ⁴¹
36	46.645	100.08	26.669	26.23	28.00	88.05
Mittl. Ort	44.782	69.02	24.007	7.38	30.01	50.01
sec δ , tg δ	1.365	+0.929	1.004	+0.092	4.530	+4.418
a, a'	+2.9	+19.9	+3.1	+19.9	+2.5	+19.9
b, b'	+0.06	+0.11	+0.01	+0.10	+0.29	+0.10

Tag	894) ω^2 Aquarii			895) γ H. Cephei			896) Lac. δ Sculptoris		
	AR.		Dekl.	AR.		Dekl.	AR.		Dekl.
1931	23 ^h 39 ^m		—14° 55'	23 ^h 44 ^m		+67° 25'	23 ^h 45 ^m		—28° 30'
Jan. I	8.197 ⁹³		44.87 ²⁷	33.50 ⁴⁶		39.33 ⁸⁶	19.684 ¹¹³		56.54 ⁹
II	8.104 ⁸⁰		45.14 ⁸	33.04 ⁴²		38.47 ¹⁴¹	19.571 ⁹⁹		56.45 ⁴⁰
21	8.024 ⁶⁴		45.22 ¹³	32.62 ³⁸		37.06 ¹⁹¹	19.472 ⁸¹		56.05 ⁷²
31	7.960 ⁴³		45.09 ³³	32.24 ³²		35.15 ²³²	19.391 ⁵⁹		55.33 ¹⁰²
Feb. 10	7.917 ²⁰		44.76 ⁵⁶	31.92 ²⁴		32.83 ²⁶³	19.332 ³³		54.31 ¹³⁰
20	7.897 ⁸		44.20 ⁷⁸	31.68 ¹⁵		30.20 ²⁸⁴	19.299 ²		53.01 ¹⁵⁶
März 2	7.905 ⁴⁰		43.42 ¹⁰²	31.53 ⁵		27.36 ²⁹²	19.297 ³²		51.45 ¹⁸¹
12	7.945 ⁷⁵		42.40 ¹²⁴	31.48 ⁶		24.44 ²⁸⁷	19.329 ⁶⁹		49.64 ²⁰³
22	8.020 ¹¹²		41.16 ¹⁴⁶	31.54 ¹⁶		21.57 ²⁷¹	19.398 ¹¹⁰		47.61 ²²²
Apr. I	8.132 ¹⁵¹		39.70 ¹⁶⁷	31.70 ²⁷		18.86 ²⁴⁵	19.508 ¹⁵¹		45.39 ²³⁷
II	8.283 ¹⁸⁹		38.03 ¹⁸⁶	31.97 ³⁷		16.41 ²⁰⁸	19.659 ¹⁹²		43.02 ²⁴⁸
21	8.472 ²²⁶		36.17 ²⁰¹	32.34 ⁴⁵		14.33 ¹⁶³	19.851 ²³²		40.54 ²⁵⁵
Mai I	8.698 ²⁵⁹		34.16 ²¹²	32.79 ⁵²		12.70 ¹¹³	20.083 ²⁶⁹		37.99 ²⁵⁵
II	8.957 ²⁸⁸		32.04 ²¹⁹	33.31 ⁵⁹		11.57 ⁵⁸	20.352 ³⁰¹		35.44 ²⁵¹
21	9.245 ³¹⁰		29.85 ²²¹	33.90 ⁶³		10.99 ²	20.653 ³²⁵		32.93 ²⁴¹
31	9.555 ³²⁵		27.64 ²¹⁷	34.53 ⁶⁵		10.97 ⁵⁵	20.978 ³⁴⁴		30.52 ²²⁵
Juni 10	9.880 ³³³		25.47 ²⁰⁹	35.18 ⁶⁵		11.52 ¹⁰⁹	21.322 ³⁵⁴		28.27 ²⁰³
20	10.213 ³³²		23.38 ¹⁹⁴	35.83 ⁶⁴		12.61 ¹⁶²	21.676 ³⁵⁵		26.24 ¹⁷⁷
30	10.545 ³²²		21.44 ¹⁷⁵	36.47 ⁶¹		14.23 ²¹⁰	22.031 ³⁴⁷		24.47 ¹⁴⁶
Juli 10	10.867 ³⁰⁵		19.69 ¹⁵³	37.08 ⁵⁷		16.33 ²⁵³	22.378 ³³⁰		23.01 ¹¹³
20	11.172 ²⁸⁰		18.16 ¹²⁶	37.65 ⁵¹		18.86 ²⁹⁰	22.708 ³⁰⁵		21.88 ⁷⁵
30	11.452 ²⁴⁹		16.90 ⁹⁷	38.16 ⁴⁴		21.76 ³²⁰	23.013 ²⁷³		21.13 ³⁸
Aug. 9	11.701 ²¹³		15.93 ⁶⁷	38.60 ³⁷		24.96 ³⁴³	23.286 ²³⁵		20.75 ¹
19	11.914 ¹⁷⁴		15.26 ³⁶	38.97 ²⁹		28.39 ³⁶¹	23.521 ¹⁹²		20.74 ³⁶
29	12.088 ¹³²		14.90 ⁷	39.26 ²⁰		32.00 ³⁷⁰	23.713 ¹⁴⁷		21.10 ⁶⁹
Sept. 8	12.220 ⁹⁰		14.83 ²⁰	39.46 ¹¹		35.70 ³⁷¹	23.860 ¹⁰⁰		21.79 ⁹⁷
17*)	12.310 ⁵⁰		15.03 ⁴⁴	39.57 ³		39.41 ³⁶⁵	23.960 ⁵⁶		22.76 ¹²¹
27	12.360 ¹²		15.47 ⁶⁴	39.60 ⁶		43.06 ³⁵²	24.016 ¹⁴		23.97 ¹³⁸
Okt. 7	12.372 ²¹		16.11 ⁷⁹	39.54 ¹³		46.58 ³³²	24.030 ²⁵		25.35 ¹⁴⁸
17	12.351 ⁴⁸		16.90 ⁸⁸	39.41 ²¹		49.90 ³⁰⁴	24.005 ⁵⁸		26.83 ¹⁵⁰
27	12.303 ⁷²		17.78 ⁹⁴	39.20 ²⁷		52.94 ²⁶⁹	23.947 ⁸⁵		28.33 ¹⁴⁷
Nov. 6	12.231 ⁸⁸		18.72 ⁹³	38.93 ³³		55.63 ²²⁷	23.862 ¹⁰⁵		29.80 ¹³⁴
16	12.143 ¹⁰⁰		19.65 ⁸⁹	38.60 ³⁸		57.90 ¹⁷⁹	23.757 ¹¹⁹		31.14 ¹¹⁸
26	12.043 ¹⁰⁶		20.54 ⁸⁰	38.22 ⁴²		59.69 ¹²⁶	23.638 ¹²⁸		32.32 ⁹⁵
Dez. 6	11.937 ¹⁰⁸		21.34 ⁶⁸	37.80 ⁴⁵		60.95 ⁷⁰	23.510 ¹³⁰		33.27 ⁶⁹
16	11.829 ¹⁰⁵		22.02 ⁵⁴	37.35 ⁴⁷		61.65 ¹⁰	23.380 ¹²⁸		33.96 ⁴⁰
26	11.724 ⁹⁸		22.56 ³⁷	36.88 ⁴⁶		61.75 ⁵⁰	23.252 ¹²⁰		34.36 ¹⁰
36	11.626		22.93	36.42		61.25	23.132		34.46
Mittl. Ort	8.729		35.60	35.90		24.13	20.064		43.21
sec δ , tg δ	1.035		—0.267	2.605		+2.405	1.138		—0.544
a, a'	+3.1		+20.0	+2.9		+20.0	+3.1		+20.0
b, b'	—0.02		+ 0.09	+0.16		+ 0.07	—0.04		+ 0.06

*) Bei Stern 895) und 896) lies Sept. 18

Tag	898) φ Pegasi		902) ω Piscium		903) ε Tucanae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1931	23 ^h 48 ^m	+18° 44'	23 ^h 55 ^m	+6° 28'	23 ^h 56 ^m	—65° 57'
Jan. 1	57.681 ₁₀₈	15.57 ₉₁	45.373 ₉₇	51.26 ₇₃	20.81 ₃₈	61.18 ₁₁₃
11	57.573 ₉₈	14.66 ₁₀₆	45.276 ₈₉	50.53 ₇₆	20.43 ₃₅	60.05 ₁₆₇
21	57.475 ₈₅	13.60 ₁₁₇	45.187 ₇₆	49.77 ₇₄	20.08 ₃₀	58.38 ₂₁₆
31	57.390 ₆₆	12.43 ₁₂₂	45.111 ₆₀	49.03 ₆₉	19.78 ₂₄	56.22 ₂₅₉
Feb. 10	57.324 ₄₁	11.21 ₁₂₀	45.051 ₃₇	48.34 ₅₉	19.54 ₁₈	53.63 ₂₉₆
20	57.283 ₁₂	10.01 ₁₁₄	45.014 ₁₁	47.75 ₄₆	19.36 ₁₁	50.67 ₃₂₆
März 2	57.271 ₂₃	8.87 ₁₀₀	45.003 ₂₀	47.29 ₂₈	19.25 ₃	47.41 ₃₄₇
12	57.294 ₆₁	7.87 ₈₀	45.023 ₅₅	47.01 ₇	19.22 ₅	43.94 ₃₆₂
22	57.355 ₁₀₂	7.07 ₅₄	45.078 ₉₄	46.94 ₁₈	19.27 ₁₃	40.32 ₃₆₉
Apr. 1	57.457 ₁₄₄	6.53 ₂₅	45.172 ₁₃₄	47.12 ₄₅	19.40 ₂₁	36.63 ₃₆₈
11	57.601 ₁₈₆	6.28 ₈	45.306 ₁₇₃	47.57 ₇₄	19.61 ₂₉	32.95 ₃₅₉
21	57.787 ₂₂₅	6.36 ₄₂	45.479 ₂₁₂	48.31 ₁₀₂	19.90 ₃₇	29.36 ₃₄₃
Mai 1	58.012 ₂₆₁	6.78 ₇₈	45.691 ₂₄₆	49.33 ₁₂₉	20.27 ₄₄	25.93 ₃₂₀
11	58.273 ₂₉₀	7.56 ₁₁₁	45.937 ₂₇₇	50.62 ₁₅₄	20.71 ₅₀	22.73 ₂₈₉
21	58.563 ₃₁₃	8.67 ₁₄₄	46.214 ₃₀₀	52.16 ₁₇₆	21.21 ₅₆	19.84 ₂₅₃
31	58.876 ₃₂₉	10.11 ₁₇₁	46.514 ₃₁₆	53.92 ₁₉₃	21.77 ₆₀	17.31 ₂₁₀
Juni 10	59.205 ₃₃₅	11.82 ₁₉₅	46.830 ₃₂₅	55.85 ₂₀₅	22.37 ₆₂	15.21 ₁₆₂
20	59.540 ₃₃₄	13.77 ₂₁₃	47.155 ₃₂₆	57.90 ₂₁₃	22.99 ₆₃	13.59 ₁₁₂
30	59.874 ₃₂₃	15.90 ₂₂₇	47.481 ₃₁₇	60.03 ₂₁₄	23.62 ₆₃	12.47 ₅₈
Juli 10	60.197 ₃₀₆	18.17 ₂₃₅	47.798 ₃₀₂	62.17 ₂₁₁	24.25 ₆₀	11.89 ₄
20	60.503 ₂₈₀	20.52 ₂₃₇	48.100 ₂₈₀	64.28 ₂₀₂	24.85 ₅₆	11.85 ₅₀
30	60.783 ₂₅₀	22.89 ₂₃₄	48.380 ₂₅₀	66.30 ₁₉₀	25.41 ₅₁	12.35 ₁₀₃
Aug. 9	61.033 ₂₁₅	25.23 ₂₂₅	48.630 ₂₁₈	68.20 ₁₇₃	25.92 ₄₄	13.38 ₁₅₁
19	61.248 ₁₇₆	27.48 ₂₁₄	48.848 ₁₈₁	69.93 ₁₅₃	26.36 ₃₅	14.89 ₁₉₄
29	61.424 ₁₃₆	29.62 ₁₉₇	49.029 ₁₄₂	71.46 ₁₃₁	26.71 ₂₇	16.83 ₂₃₀
Sept. 8	61.560 ₉₆	31.59 ₁₇₉	49.171 ₁₀₄	72.77 ₁₀₈	26.98 ₁₇	19.13 ₂₅₇
18	61.656 ₅₈	33.38 ₁₅₇	49.275 ₆₆	73.85 ₈₅	27.15 ₂₁	21.70 ₂₇₃
27	61.714 ₂₃	34.95 ₁₃₅	49.341 ₃₁	74.70 ₆₂	27.22 ₃	24.43 ₂₈₀
Okt. 7	61.737 ₁₀	36.30 ₁₁₁	49.372 ₀	75.32 ₄₀	27.19 ₁₂	27.23 ₂₇₅
17	61.727 ₃₇	37.41 ₈₅	49.372 ₂₈	75.72 ₂₀	27.07 ₂₀	29.98 ₂₅₇
27	61.690 ₆₁	38.26 ₆₁	49.344 ₅₀	75.92 ₀	26.87 ₂₈	32.55 ₂₃₀
Nov. 6	61.629 ₈₀	38.87 ₃₆	49.294 ₆₉	75.92 ₁₆	26.59 ₃₄	34.85 ₁₉₂
16	61.549 ₉₅	39.23 ₁₁	49.225 ₈₃	75.76 ₃₁	26.25 ₃₉	36.77 ₁₄₇
26	61.454 ₁₀₄	39.34 ₁₄	49.142 ₉₂	75.45 ₄₄	25.86 ₄₁	38.24 ₉₅
Dez. 6	61.350 ₁₁₀	39.20 ₃₈	49.050 ₉₈	75.01 ₅₄	25.45 ₄₂	39.19 ₃₉
16	61.240 ₁₁₂	38.82 ₆₀	48.952 ₁₀₁	74.47 ₆₄	25.03 ₄₂	39.58 ₂₀
26	61.128 ₁₁₀	38.22 ₈₀	48.851 ₉₈	73.83 ₇₀	24.61 ₄₀	39.38 ₇₈
36	61.018	37.42	48.753	73.13	24.21	38.60
Mittl. Ort	58.481	12.98	45.999	52.64	20.52	40.08
sec δ , tg δ	1.056	+0.339	1.007	+0.114	2.455	—2.242
a , a'	+3.1	+20.0	+3.1	+20.0	+3.1	+20.0
b , b'	+0.02	+0.05	+0.01	+0.02	—0.15	+0.02

Na) 43 Hev. Cephei 4^m.52

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	^h 58 ^m	[°] 53'	^{0.01} | ^{0.01}	^h 58 ^m	[°] 53'	^{0.01} | ^{0.01}	^h 58 ^m	[°] 53'	^{0.01} | ^{0.01}	^h 58 ^m	[°] 53'	^{0.01} | ^{0.01}
	+	in		+	in		+	in		+	in	
1	51.71	37.06	+ 2 - 12	42.70	36.67	+ 9 + 4	36.25	31.45	+ 7 + 6	33.40	22.56	- 9 + 5
2	51.42	37.15	+ 7 - 9	42.43	36.55	+ 6 + 8	36.08	31.20	+ 3 + 9	33.40	22.25	- 11 + 1
3	51.13	37.23	+ 10 - 4	42.16	36.43	+ 1 + 10	35.91	30.94	- 2 + 9	33.40	21.95	- 10 - 3
4	50.84	37.30	+ 10 + 1	41.89	36.31	- 3 + 10	35.75	30.68	- 7 + 8	33.41	21.64	- 6 - 6
5	50.54	37.36	+ 8 + 6	41.62	36.18	- 8 + 7	35.59	30.42	- 10 + 4	33.43	21.34	- 2 - 7
6	50.25	37.42	+ 5 + 10	41.36	36.04	- 10 + 3	35.44	30.15	- 10 0	33.45	21.04	+ 3 - 6
7	49.96	37.47	- 1 + 11	41.10	35.90	- 10 - 1	35.29	29.89	- 8 - 4	33.48	20.74	+ 8 - 4
8	49.66	37.52	- 5 + 9	40.84	35.75	- 7 - 5	35.15	29.62	- 4 - 6	33.51	20.43	+ 11 0
9	49.37	37.56	- 9 + 6	40.59	35.59	- 3 - 7	35.02	29.35	+ 1 - 7	33.55	20.13	+ 12 + 4
10	49.07	37.59	- 10 + 1	40.34	35.43	+ 2 - 7	34.89	29.07	+ 6 - 5	33.59	19.83	+ 10 + 8
11	48.77	37.62	- 9 - 3	40.09	35.27	+ 7 - 5	34.76	28.79	+ 9 - 2	33.64	19.53	+ 7 + 10
12	48.48	37.64	- 5 - 6	39.84	35.10	+ 10 - 1	34.64	28.51	+ 11 + 1	33.69	19.23	+ 3 + 11
13	48.18	37.65	- 1 - 7	39.60	34.92	+ 11 + 3	34.53	28.23	+ 11 + 5	33.75	18.94	- 1 + 10
14	47.89	37.66	+ 4 - 6	39.36	34.74	+ 10 + 6	34.42	27.94	+ 9 + 8	33.82	18.65	- 5 + 7
15	47.59	37.66	+ 8 - 4	39.12	34.55	+ 8 + 9	34.32	27.65	+ 6 + 10	33.89	18.36	- 9 + 4
16	47.30	37.65	+ 10 0	38.89	34.36	+ 4 + 10	34.22	27.36	+ 1 + 10	33.97	18.07	- 10 0
17	47.00	37.64	+ 11 + 3	38.66	34.16	- 1 + 9	34.12	27.07	- 3 + 8	34.05	17.78	- 10 - 5
18	46.71	37.62	+ 9 + 7	38.44	33.96	- 5 + 7	34.03	26.78	- 7 + 6	34.14	17.49	- 8 - 8
19	46.41	37.59	+ 6 + 9	38.22	33.75	- 8 + 4	33.95	26.49	- 9 + 2	34.24	17.21	- 5 - 11
20	46.12	37.56	+ 2 + 9	38.00	33.54	- 10 0	33.87	26.19	- 10 - 2	34.34	16.93	0 - 12
21	45.83	37.52	- 2 + 8	37.79	33.33	- 10 - 5	33.80	25.89	- 10 - 7	34.45	16.65	+ 4 - 11
22	45.54	37.48	- 6 + 6	37.58	33.11	- 9 - 8	33.73	25.59	- 7 - 10	34.56	16.37	+ 8 - 7
23	45.25	37.43	- 9 + 2	37.38	32.88	- 6 - 12	33.67	25.29	- 3 - 12	34.67	16.10	+ 10 - 3
24	44.96	37.37	- 11 - 2	37.18	32.65	- 2 - 13	33.62	24.98	+ 1 - 12	34.79	15.83	+ 9 + 2
25	44.68	37.30	- 11 - 6	36.99	32.42	+ 3 - 12	33.57	24.68	+ 6 - 10	34.92	15.56	+ 6 + 6
26	44.39	37.23	- 8 - 10	36.80	32.19	+ 7 - 9	33.53	24.38	+ 9 - 6	35.05	15.29	+ 2 + 8
27	44.11	37.15	- 5 - 12	36.61	31.95	+ 9 - 4	33.50	24.08	+ 10 - 1	35.19	15.03	- 3 + 8
28	43.82	37.07	0 - 13	36.43	31.70	+ 9 + 1	33.47	23.77	+ 8 + 4	35.33	14.77	- 8 + 6
29	43.54	36.98	+ 5 - 11	36.25	31.45	+ 7 + 6	33.44	23.47	+ 5 + 7	35.48	14.51	- 11 + 2
30	43.26	36.88	+ 8 - 7				33.42	23.16	0 + 9	35.63	14.26	- 11 - 2
31	42.98	36.78	+ 10 - 2				33.41	22.86	- 5 + 8	35.79	14.01	- 8 - 6
32	42.70	36.67	+ 9 + 4				33.40	22.56	- 9 + 5			

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 53' 10"	13.939	+13.903	+85° 53' 30"	13.958	+13.922
20	13.949	+13.913	40	13.968	+13.932

$$\alpha_{1931.0} = {}^h 58^m 58^s.05$$

$$\delta_{1931.0} = +85^\circ 53' 16''.80$$

*) Tag der doppelten unteren Kulmination: April 7

Na) 43. Hev. Cephei 4^m.52

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	^h 58 ^m	[°] 85' 53"	[°] 0.01 [°] 0.01	^h 58 ^m	[°] 85' 53"	[°] 0.01 [°] 0.01	^h 58 ^m	[°] 85' 53"	[°] 0.01 [°] 0.01	^h 59 ^m	[°] 85' 53"	[°] 0.01 [°] 0.01
	+	in		+	in		+	in		+	in	
1	35.79	14.01	- 8 - 6	42.68	8.29	+ 8 - 4	51.65	7.43	+10 + 6	1.00	11.66	- 4 + 9
2	35.95	13.76	- 4 - 8	42.95	8.18	+11 0	51.97	7.49	+ 7 + 9	1.28	11.88	- 7 + 6
3	36.12	13.52	+ 1 - 8	43.23	8.08	+11 + 4	52.28	7.55	+ 4 +10	1.55	12.10	- 9 + 2
4	36.29	13.28	+ 6 - 6	43.51	7.98	+ 9 + 8	52.59	7.62	- 1 +10	1.83	12.33	-10 - 3
5	36.46	13.04	+10 - 2	43.79	7.89	+ 6 +10	52.91	7.69	- 5 + 8	2.10	12.56	- 9 - 7
6	36.64	12.81	+11 + 2	44.08	7.80	+ 2 +11	53.22	7.77	- 8 + 4	2.37	12.79	- 7 -10
7	36.82	12.58	+11 + 6	44.36	7.72	- 3 + 9	53.53	7.86	-10 0	2.64	13.03	- 3 -12
8	37.01	12.36	+ 8 + 9	44.65	7.65	- 6 + 7	53.84	7.95	-10 - 4	2.91	13.27	+ 2 -12
9	37.20	12.14	+ 5 +11	44.94	7.58	- 9 + 3	54.15	8.04	- 8 - 8	3.17	13.52	+ 6 -10
10	37.40	11.92	0 +10	45.23	7.52	-10 - 1	54.46	8.14	- 5 -11	3.43	13.77	+ 9 - 6
11	37.60	11.71	- 4 + 8	45.53	7.46	-10 - 6	54.77	8.24	- 1 -12	3.69	14.02	+10 - 1
12	37.81	11.50	- 8 + 5	45.83	7.41	- 7 - 9	55.08	8.35	+ 4 -11	3.94	14.28	+ 8 + 4
13	38.02	11.29	-10 + 1	46.12	7.36	- 4 -11	55.39	8.47	+ 8 - 8	4.19	14.55	+ 5 + 8
14	38.23	11.09	-10 - 3	46.42	7.32	+ 1 -11	55.69	8.59	+10 - 3	4.44	14.82	0 + 9
15	38.45	10.89	- 9 - 7	46.72	7.28	+ 5 -10	56.00	8.72	+10 + 2	4.69	15.09	- 5 + 9
16	38.67	10.70	- 6 -10	47.02	7.25	+ 9 - 6	56.30	8.85	+ 7 + 6	4.93	15.36	- 9 + 6
17	38.89	10.51	- 2 -11	47.32	7.22	+10 - 1	56.61	8.99	+ 3 + 9	5.17	15.64	-10 + 2
18	39.12	10.33	+ 3 -11	47.62	7.20	+ 9 + 4	56.91	9.13	- 2 +10	5.41	15.93	-10 - 3
19	39.35	10.15	+ 7 - 8	47.93	7.18	+ 6 + 8	57.21	9.28	- 6 + 8	5.65	16.22	- 7 - 6
20	39.59	9.98	+ 9 - 4	48.24	7.17	+ 1 + 9	57.51	9.43	-10 + 4	5.88	16.51	- 2 - 8
21	39.83	9.81	+10 + 1	48.55	7.16	- 4 + 9	57.81	9.59	-11 - 1	6.11	16.80	+ 4 - 7
22	40.07	9.65	+ 8 + 5	48.86	7.16	- 8 + 6	58.11	9.75	- 9 - 5	6.34	17.10	+ 8 - 4
23	40.31	9.49	+ 4 + 8	49.17	7.17	-11 + 2	58.40	9.92	- 5 - 7	6.56	17.40	+11 0
24	40.56	9.34	- 1 + 9	49.48	7.18	-10 - 3	58.69	10.10	0 - 8	6.78	17.70	+12 + 4
25	40.81	9.19	- 6 + 7	49.79	7.20	- 8 - 6	58.99	10.28	+ 5 - 6	7.00	18.01	+10 + 8
26	41.07	9.04	-10 + 4	50.10	7.22	- 3 - 8	59.28	10.46	+ 9 - 3	7.21	18.32	+ 7 +10
27	41.33	8.90	-11 0	50.41	7.25	+ 2 - 8	59.57	10.65	+11 + 1	7.42	18.63	+ 3 +11
28	41.59	8.77	-10 - 5	50.72	7.29	+ 7 - 6	59.86	10.84	+11 + 5	7.62	18.95	- 2 +10
29	41.86	8.64	- 6 - 8	51.03	7.33	+10 - 2	60.15	11.04	+ 9 + 8	7.82	19.27	- 6 + 7
30	42.13	8.52	- 1 - 9	51.34	7.38	+11 + 2	60.44	11.24	+ 5 +10	8.02	19.59	- 9 + 3
31	42.40	8.40	+ 4 - 7	51.65	7.43	+10 + 6	60.72	11.45	+ 1 +10	8.22	19.92	-10 - 1
32	42.68	8.29	+ 8 - 4				61.00	11.66	- 4 + 9	8.41	20.25	-10 - 5

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 53' 0"	13.930	+13.894	+85° 53' 20"	13.949	+13.913
10	13.939	+13.903	30	13.958	+13.922

$$\alpha_{1931.0} = {}^h 58^m 58^s.05$$

$$\delta_{1931.0} = +85^\circ 53' 16''.80$$

Na) 43 Hrv. Cephei 4^m.52

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	0 ^h 59 ^m	85° 53'	0.01 | 0.01	0 ^h 59 ^m	85° 53'	0.01 | 0.01	0 ^h 59 ^m	85° 53'	0.01 | 0.01	0 ^h 59 ^m	85° 53'	0.01 | 0.01
	+	in		+	in		+	in		+	in	
1	8.41	20.25	-10 - 5	12.37	31.17	- 1 - 12	12.23	43.43	+ 9 + 2	7.89	53.08	- 2 + 8
2	8.60	20.58	- 8 - 9	12.44	31.56	+ 3 - 11	12.15	43.79	+ 5 + 6	7.68	53.34	- 7 + 6
3	8.79	20.92	- 4 - 12	12.50	31.94	+ 7 - 9	12.06	44.15	+ 1 + 8	7.47	53.60	- 10 + 2
4	8.97	21.26	0 - 12	12.56	32.33	+ 9 - 5	11.97	44.51	- 5 + 7	7.26	53.85	- 11 - 2
5	9.15	21.60	+ 4 - 11	12.61	32.72	+ 9 0	11.88	44.87	- 9 + 5	7.04	54.10	- 10 - 6
6	9.32	21.94	+ 7 - 8	12.66	33.10	+ 7 + 4	11.78	45.22	- 11 + 1	6.82	54.34	- 6 - 9
7	9.49	22.29	+ 9 - 3	12.70 12.74	33.49 33.88	+ 3 + 7 - 2 + 8	11.68	45.57	- 11 - 4	6.60	54.58	0 - 9
8	9.66	22.64	+ 9 + 2	12.77	34.27	- 6 + 7	11.57	45.92	- 8 - 7	6.37	54.81	+ 5 - 7
9	9.82	22.99	+ 6 + 5	12.80	34.66	- 10 + 4	11.46	46.27	- 3 - 9	6.14	55.04	+ 9 - 4
10	9.98	23.34	+ 2 + 8	12.83	35.05	- 11 - 1	11.34	46.62	+ 2 - 8	5.90	55.26	+ 11 + 1
11	10.14	23.70	- 3 + 8	12.85	35.44	- 10 - 5	11.22	46.96	+ 7 - 5	5.66	55.48	+ 11 + 6
12	10.29	24.06	- 8 + 6	12.87	35.83	- 6 - 7	11.09	47.30	+ 11 - 1	5.42	55.69	+ 9 + 10
13	10.44	24.42	- 11 + 3	12.88	36.22	- 1 - 8	10.96	47.64	+ 12 + 3	5.18	55.89	+ 5 + 12
14	10.58	24.78	- 11 - 2	12.89	36.60	+ 5 - 7	10.83	47.97	+ 11 + 8	4.93	56.09	0 + 12
15	10.72	25.14	- 9 - 5	12.89	36.99	+ 9 - 3	10.69	48.30	+ 8 + 11	4.68	56.29	- 4 + 9
16	10.85	25.50	- 4 - 7	12.89	37.38	+ 11 + 1	10.55	48.63	+ 3 + 12	4.43	56.48	- 7 + 6
17	10.98	25.87	+ 1 - 7	12.88	37.77	+ 12 + 6	10.40	48.95	- 1 + 11	4.18	56.66	- 9 + 2
18	11.11	26.24	+ 7 - 5	12.87	38.15	+ 10 + 9	10.25	49.27	- 5 + 9	3.92	56.84	- 10 - 2
19	11.23	26.61	+ 10 - 1	12.85	38.54	+ 6 + 12	10.09	49.59	- 8 + 5	3.66	57.01	- 8 - 6
20	11.35	26.99	+ 12 + 3	12.83	38.92	+ 2 + 12	9.93	49.90	- 10 + 1	3.40	57.18	- 5 - 9
21	11.46	27.36	+ 11 + 7	12.81	39.30	- 3 + 10	9.76	50.21	- 9 - 4	3.13	57.34	- 2 - 11
22	11.57	27.74	+ 8 + 10	12.78	39.69	- 7 + 7	9.59	50.52	- 7 - 7	2.86	57.49	+ 3 - 10
23	11.68	28.11	+ 4 + 12	12.75	40.07	- 9 + 3	9.42	50.82	- 4 - 10	2.59	57.64	+ 6 - 8
24	11.78	28.49	0 + 11	12.71	40.45	- 10 - 1	9.24	51.12	0 - 11	2.32	57.78	+ 9 - 5
25	11.88	28.87	- 4 + 9	12.67	40.83	- 9 - 5	9.06	51.41	+ 4 - 10	2.04	57.92	+ 10 0
26	11.97	29.25	- 8 + 5	12.62	41.20	- 6 - 9	8.87	51.70	+ 8 - 7	1.76	58.05	+ 8 + 4
27	12.06	29.63	- 10 + 1	12.57	41.58	- 3 - 11	8.68	51.98	+ 9 - 3	1.48	58.17	+ 5 + 8
28	12.14	30.01	- 10 - 3	12.51	41.95	+ 1 - 11	8.49	52.26	+ 9 + 1	1.20	58.29	0 + 9
29	12.22	30.40	- 8 - 7	12.45	42.32	+ 5 - 10	8.29	52.54	+ 7 + 5	0.92	58.40	- 5 + 8
30	12.30	30.78	- 5 - 10	12.38	42.69	+ 8 - 6	8.09	52.81	+ 3 + 8	0.64	58.50	- 9 + 5
31	12.37	31.17	- 1 - 12	12.31	43.06	+ 10 - 2	7.89	53.08	- 2 + 8	0.36	58.60	- 11 0
32				12.23	43.43	+ 9 + 2				0.07	58.69	- 11 - 4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 53' 20"	13.949	+13.913	+85° 53' 40"	13.968	+13.932	+85° 53' 50"	13.977	+13.941
30	13.953	+13.922	50	13.977	+13.941	60	13.986	+13.951

$$\alpha_{1931.0} = 0^h 58^m 58^s.05$$

$$\delta_{1931.0} = +85^\circ 53' 16''.80$$

Nb) α Ursae minoris 2^m.12

Tag	Januar			Februar			März			April		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	$1^h 36^m$	$88^\circ 56'$	$\begin{smallmatrix} + \\ \text{c.oi} | \text{o.oi} \end{smallmatrix}$	$1^h 36^m$	$88^\circ 56'$	$\begin{smallmatrix} + \\ \text{c.oi} | \text{o.oi} \end{smallmatrix}$	$1^h 35^m$	$88^\circ 56'$	$\begin{smallmatrix} + \\ \text{c.oi} | \text{o.oi} \end{smallmatrix}$	$1^h 35^m$	$88^\circ 56'$	$\begin{smallmatrix} + \\ \text{c.oi} | \text{o.oi} \end{smallmatrix}$
1	74.18	22.12	+ 6 - 12	38.79	23.58	+34 + 2	70.51	19.72	+27 + 5	53.81	11.47	-32 + 7
2	73.10	22.26	+23 - 10	37.66	23.52	+24 + 7	69.69	19.50	+12 + 8	53.61	11.17	-39 + 3
3	72.01	22.40	+35 - 6	36.53	23.46	+ 7 + 10	68.88	19.28	- 6 + 10	53.43	10.86	-36 - 2
4	70.91	22.53	+38 0	35.41	23.39	-12 + 10	68.09	19.06	-24 + 9	53.27	10.56	-24 - 5
5	69.81	22.66	+32 + 5	34.29	23.31	-28 + 9	67.32	18.83	-35 + 6	53.13	10.26	- 7 - 7
6	68.70	22.78	+18 + 9	33.19	23.23	-36 + 5	66.56	18.60	-38 + 2	53.01	9.96	+12 - 7
7	67.58	22.89	- 1 + 11	32.09	23.14	-36 0	65.82	18.36	-31 - 2	52.92	9.65	+29 - 5
8	66.46	23.00	-19 + 10	30.99	23.05	-27 - 4	65.11	18.12	-17 - 6	52.85	9.35	+40 - 2
9	65.33	23.10	-32 + 7	29.91	22.95	-11 - 6	64.41	17.88	+ 1 - 7	52.80	9.04	+43 + 2
10	64.20	23.19	-37 + 3	28.83	22.84	+ 8 - 7	63.72	17.63	+20 - 7	52.77	8.74	+39 + 6
11	63.06	23.28	-33 - 2	27.76	22.73	+25 - 6	63.06	17.38	+35 - 4	52.76	8.44	+28 + 9
12	61.92	23.36	-21 - 5	26.70	22.61	+37 - 3	62.41	17.13	+43 0	52.78	8.13	+13 + 10
13	60.77	23.43	- 4 - 7	25.65	22.48	+42 + 1	61.79	16.87	+42 + 3	52.82	7.83	- 4 + 10
14	59.62	23.50	+14 - 7	24.61	22.35	+39 + 4	61.18	16.61	+35 + 7	52.88	7.52	-19 + 8
15	58.47	23.56	+30 - 5	23.58	22.21	+29 + 7	60.60	16.34	+23 + 9	52.96	7.22	-31 + 5
16	57.31	23.61	+39 - 2	22.56	22.07	+16 + 9	60.03	16.07	+ 7 + 10	53.06	6.92	-37 + 1
17	56.15	23.66	+40 + 2	21.55	21.92	- 1 + 10	59.48	15.80	- 9 + 9	53.19	6.62	-38 - 3
18	54.99	23.70	+35 + 5	20.55	21.76	-16 + 8	58.96	15.52	-24 + 7	53.34	6.32	-31 - 7
19	53.83	23.74	+23 + 8	19.57	21.60	-30 + 6	58.45	15.25	-35 + 4	53.51	6.02	-19 - 11
20	52.66	23.77	+ 9 + 9	18.60	21.44	-38 + 2	57.97	14.97	-39 - 1	53.70	5.72	- 3 - 12
21	51.50	23.79	- 7 + 9	17.64	21.27	-40 - 3	57.50	14.69	-37 - 5	53.91	5.42	+14 - 11
22	50.33	23.80	-22 + 7	16.70	21.09	-35 - 7	57.06	14.41	-28 - 9	54.15	5.13	+27 - 9
23	49.17	23.81	-34 + 4	15.77	20.91	-24 - 11	56.63	14.12	-14 - 12	54.40	4.83	+35 - 5
24	48.00	23.81	-40 0	14.86	20.72	- 8 - 13	56.23	13.83	+ 3 - 12	54.68	4.54	+34 0
25	46.84	23.81	-40 - 5	13.96	20.53	+ 9 - 12	55.86	13.54	+19 - 11	54.98	4.25	+25 + 5
26	45.68	23.80	-32 - 9	13.07	20.33	+24 - 10	55.50	13.25	+31 - 8	55.30	3.96	+ 8 + 8
27	44.52	23.78	-19 - 12	12.20	20.13	+34 - 6	55.16	12.96	+35 - 3	55.64	3.68	-11 + 9
28	43.37	23.75	- 1 - 13	11.35	19.93	+35 0	54.85	12.66	+30 + 2	55.99	3.39	-28 + 7
29	42.22	23.72	+16 - 11	10.51	19.72	+27 + 5	54.56	12.37	+18 + 6	56.37	3.11	-39 + 4
30	41.07	23.68	+30 - 8				54.29	12.07	0 + 9	56.77	2.83	-40 0
31	39.93	23.63	+37 - 3				54.04	11.77	-18 + 9	57.19	2.55	-32 - 4
32	38.79	23.58	+34 + 2				53.81	11.47	-32 + 7			

δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 56' 0"	53.718	+53.709	+88° 56' 20"	53.999	+53.990
10	53.858	+53.849	30	54.141	+54.132

$$\alpha_{1931.0} = 1^h 37^m 25^s.31 \quad \delta_{1931.0} = +88^\circ 56' 0''.92$$

*) Tag der doppelten unteren Kulmination: April 16

Nb) α Ursae minoris 2^m.12

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	1 ^h 35 ^m	+ 88° 55'	0.01 | 0.01	1 ^h 36 ^m	+ 88° 55'	0.01 | 0.01	1 ^h 36 ^m	+ 88° 55'	0.01 | 0.01	1 ^h 37 ^m	+ 88° 55'	0.01 | 0.01
1	57.19	62.55	-32 - 4	19.01	55.56	+31 - 6	51.47	52.96	+39 + 5	28.36	55.34	-12 + 9
2	57.63	62.28	-16 - 7	19.96	55.40	+40 - 2	52.65	52.96	+29 + 8	29.52	55.50	-26 + 7
3	58.09	62.00	+ 3 - 8	20.91	55.24	+42 + 3	53.83	52.96	+15 +10	30.67	55.67	-35 + 3
4	58.57	61.73	+22 - 7	21.88	55.09	+36 + 6	55.02	52.97	- 2 +10	31.81	55.84	-39 - 1
5	59.07	61.46	+36 - 4	22.86	54.94	+24 + 9	56.21	52.98	-18 + 9	32.95	56.02	-36 - 5
6	59.59	61.19	+43 0	23.85	54.80	+ 8 +10	57.40	53.00	-30 + 6	34.08	56.20	-27 - 9
7	60.12	60.93	+41 + 4	24.86	54.66	- 8 +10	58.60	53.02	-37 + 1	35.21	56.38	-12 -12
8	60.68	60.67	+33 + 8	25.87	54.53	-22 + 8	59.79	53.05	-38 - 3	36.33	56.57	+ 4 -12
9	61.25	60.41	+19 +10	26.90	54.41	-33 + 4	60.99	53.09	-32 - 7	37.44	56.76	+20 -11
10	61.84	60.16	+ 2 +11	27.93	54.29	-38 0	62.19	53.13	-21 -10	38.55	56.96	+31 - 7
11	62.45	59.91	-13 + 9	28.98	54.17	-37 - 4	63.39	53.17	- 5 -12	39.65	57.16	+35 - 2
12	63.08	59.66	-27 + 7	30.03	54.06	-28 - 8	64.60	53.22	+11 -12	40.74	57.37	+31 + 3
13	63.72	59.42	-36 + 3	31.10	53.96	-15 -11	65.80	53.28	+26 - 9	41.83	57.58	+19 + 7
14	64.39	59.18	-38 - 1	32.17	53.86	+ 2 -12	67.00	53.34	+35 - 5	42.91	57.80	+ 2 + 9
15	65.07	58.95	-34 - 6	33.25	53.76	+18 -11	68.20	53.41	+36 0	43.98	58.02	-17 +10
16	65.77	58.72	-24 - 9	34.34	53.67	+31 - 8	69.40	53.48	+29 + 5	45.04	58.25	-32 + 7
17	66.48	58.49	- 9 -11	35.43	53.59	+37 - 3	70.60	53.56	+14 + 9	46.09	58.48	-39 + 3
18	67.21	58.27	+ 8 -12	36.54	53.51	+34 + 2	71.80	53.64	- 5 +10	47.14	58.71	-36 - 1
19	67.96	58.05	+24 -10	37.65	53.44	+23 + 7	73.00	53.73	-23 + 9	48.18	58.95	-25 - 5
20	68.72	57.83	+34 - 6	38.77	53.37	+ 6 + 9	74.20	53.82	-35 + 6	49.20	59.19	- 7 - 7
21	69.50	57.62	+37 - 1	39.90	53.31	-13 +10	75.40	53.92	-39 + 1	50.22	59.44	+12 - 8
22	70.29	57.41	+30 + 4	41.03	53.25	-29 + 8	76.59	54.02	-33 - 3	51.24	59.69	+30 - 6
23	71.10	57.20	+16 + 7	42.17	53.20	-39 + 4	77.78	54.13	-19 - 7	52.24	59.94	+41 - 2
24	71.92	57.00	- 3 + 9	43.31	53.15	-39 - 1	78.97	54.25	0 - 8	53.23	60.20	+44 + 2
25	72.76	56.80	-21 + 9	44.46	53.11	-30 - 5	80.16	54.37	+18 - 7	54.21	60.46	+39 + 6
26	73.61	56.61	-35 + 6	45.61	53.07	-13 - 8	81.34	54.49	+34 - 5	55.19	60.73	+27 + 9
27	74.48	56.42	-41 + 1	46.77	53.04	+ 6 - 9	82.52	54.62	+42 - 1	56.15	61.00	+11 +11
28	75.36	56.24	-36 - 3	47.94	53.01	+25 - 7	83.70	54.76	+41 + 4	57.10	61.28	- 6 +10
29	76.25	56.06	-24 - 7	49.11	52.99	+37 - 4	84.87	54.90	+34 + 7	58.04	61.56	-21 + 8
30	77.16	55.89	- 5 - 8	50.29	52.97	+42 + 1	86.04	55.04	+21 +10	58.96	61.84	-32 + 5
31	78.08	55.72	+15 - 8	51.47	52.96	+39 + 5	87.20	55.19	+ 4 +10	59.88	62.13	-37 + 1
32	79.01	55.56	+31 - 6				88.36	55.34	-12 + 9	60.78	62.42	-37 - 4

δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 55' 50"	53.578	+53.569	+88° 55' 60"	53.718	+53.709
60	53.718	+53.709	70	53.858	+53.849

$$\alpha_{1931.0} = 1^h 37^m 25^s .31$$

$$\delta_{1931.0} = +88^\circ 56' 0''.92$$

N6) α Ursae minoris 2^m.12

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl.	AR.	Dekl.	Gl.	AR.	Dekl.	Gl.	AR.	Dekl.	Gl.
	1 ^h 38 ^m	88° 56'	0.01 0.01	1 ^h 38 ^m	88° 56'	0.01 0.01	1 ^h 38 ^m	88° 56'	0.01 0.01	1 ^h 37 ^m	88° 56'	0.01 0.01
		+	in		+	in		+	in		+	in
1	0.78	2.42	-37 - 4	21.85	12.49	- 8 -12	28.23	24.75	+31 + 1	76.90	35.30	- 8 + 9
2	1.68	2.71	-29 - 8	22.32	12.86	+ 8 -12	28.12	25.13	+20 + 5	76.24	35.61	-26 + 8
3	2.56	3.00	-17 -11	22.77	13.23	+23 -10	28.00	25.51	+ 3 + 8	75.56	35.91	-38 + 4
4	3.44	3.30	- 2 -12	23.21	13.61	+32 - 7	27.85	25.89	-16 + 8	74.87	36.21	-43 0
5	4.30	3.60	+14 -12	23.63	13.98	+34 - 2	27.69	26.27	-32 + 6	74.16	36.50	-37 - 5
6	5.14	3.91	+27 - 9	24.03	14.36	+27 + 3	27.51	26.65	-41 + 2	73.43	36.79	-22 - 8
7	5.98	4.22	+33 - 5	24.42	14.74	+13 + 6	27.31	27.02	-41 - 2	72.69	37.07	- 2 - 9
8	6.80	4.54	+32 0	24.79	15.12	- 4 + 8	27.10	27.39	-31 - 6	71.93	37.35	+18 - 8
9	7.61	4.85	+23 + 5	25.14	15.50	-23 + 8	26.86	27.76	-14 - 9	71.15	37.63	+34 - 5
10	8.40	5.17	+ 7 + 8	25.48	15.89	-36 + 5	26.60	28.13	+ 7 - 9	70.36	37.90	+43 - 1
11	9.19	5.50	-11 + 9	25.80	16.27	-41 + 1	26.33	28.50	+26 - 7	69.55	38.17	+43 + 4
12	9.96	5.82	-27 + 8	26.10	16.65	-37 - 3	26.03	28.86	+39 - 3	68.73	38.43	+35 + 8
13	10.72	6.15	-38 + 5	26.38	17.03	-23 - 7	25.72	29.22	+45 + 2	67.89	38.69	+21 +11
14	11.46	6.48	-39 0	26.65	17.42	- 4 - 8	25.38	29.58	+41 + 6	67.04	38.94	+ 3 +12
15	12.19	6.82	-31 - 4	26.90	17.80	+16 - 8	25.03	29.94	+30 +10	66.18	39.19	-13 +10
16	12.90	7.15	-15 - 7	27.13	18.19	+33 - 5	24.66	30.30	+14 +12	65.30	39.43	-26 + 8
17	13.60	7.49	+ 5 - 8	27.34 27.53	18.57 18.96	+43 -1 +44 +4	24.27	30.65	- 3 +11	64.41	39.67	-34 + 4
18	14.29	7.83	+24 - 6	27.71	19.35	+37 + 8	23.86	31.00	-18 +10	63.50	39.90	-36 - 1
19	14.96	8.18	+38 - 3	27.86	19.73	+24 +11	23.43	31.35	-29 + 6	62.58	40.13	-32 - 5
20	15.62	8.53	+44 + 1	28.00	20.12	+ 7 +12	22.99	31.70	-35 + 2	61.65	40.35	-22 - 8
21	16.26	8.88	+42 + 5	28.12	20.51	- 9 +11	22.53	32.05	-36 - 2	60.70	40.57	- 8 -11
22	16.89	9.23	+32 + 9	28.22	20.90	-23 + 8	22.04	32.39	-29 - 6	59.74	40.78	+ 8 -11
23	17.50	9.58	+18 +11	28.31	21.29	-33 + 5	21.54	32.73	-17 - 9	58.77	40.99	+23 - 9
24	18.10	9.94	+ 1 +11	28.37	21.67	-36 0	21.03	33.06	- 2 -11	57.79	41.19	+33 - 6
25	18.68	10.30	-15 +10	28.42	22.06	-34 - 4	20.49	33.39	+13 -11	56.79	41.38	+36 - 2
26	19.25	10.66	-28 + 7	28.45	22.45	-25 - 8	19.94	33.72	+27 - 8	55.78	41.57	+31 + 3
27	19.80	11.02	-35 + 3	28.46	22.83	-12 -11	19.36	34.04	+34 - 5	54.77	41.75	+18 + 7
28	20.34	11.38	-37 - 2	28.45	23.22	+ 3 -11	18.77	34.36	+35 0	53.74	41.93	+ 1 + 9
29	20.86	11.75	-33 - 6	28.42	23.60	+18 -10	18.17	34.68	+26 + 4	52.71	42.10	-18 + 9
30	21.36	12.12	-22 -10	28.37	23.99	+30 - 8	17.54	34.99	+11 + 7	51.66	42.26	-33 + 6
31	21.85	12.49	- 8 -12	28.31	24.37	+35 - 4	16.90	35.30	- 8 + 9	50.60	42.42	-41 + 2
32				28.23	24.75	+31 + 1				49.54	42.57	-40 - 3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 56' 0''	53.718	+53.709	+88° 56' 20''	53.999	+53.990	+88° 56' 40''	54.283	+54.274
10	53.858	+53.849	30	54.141	+54.132	50	54.426	+54.417

$$\alpha_{1931.0} = 1^h 37^m 25^s.31$$

$$\delta_{1931.0} = +88^\circ 56' 0''.92$$

Ne) Grb 750 6^m.70

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	4 ^h 14 ^m	85° 22'	0.01 | 0.01	4 ^h 14 ^m	85° 22'	0.01 | 0.01	4 ^h 14 ^m	85° 22'	0.01 | 0.01	4 ^h 13 ^m	85° 22'	0.01 | 0.01
	+	in		+	in		+	in		+	in	
1	19.89	35.70	- 6 - 11	14.67	42.82	+ 8 - 4	7.83	44.70	+ 8 0	60.70	41.30	- 2 + 11
2	19.78	35.99	- 1 - 12	14.45	42.97	+ 9 + 2	7.57	44.68	+ 7 + 5	60.51	41.11	- 6 + 9
3	19.67	36.28	+ 3 - 10	14.22	43.11	+ 7 + 7	7.32	44.65	+ 5 + 9	60.32	40.91	- 8 + 5
4	19.55	36.57	+ 7 - 6	13.99	43.25	+ 4 + 10	7.07	44.61	+ 1 + 11	60.14	40.71	- 8 0
5	19.43	36.85	+ 9 - 1	13.76	43.38	0 + 11	6.82	44.57	- 3 + 11	59.96	40.51	- 6 - 5
6	19.31	37.13	+ 9 + 4	13.53	43.51	- 4 + 10	6.57	44.52	- 6 + 8	59.78	40.30	- 2 - 8
7	19.18	37.41	+ 6 + 9	13.30	43.63	- 7 + 6	6.32	44.47	- 7 + 3	59.61	40.09	+ 3 - 9
8	19.05	37.68	+ 2 + 11	13.07	43.74	- 7 + 1	6.08	44.41	- 7 - 2	59.44	39.87	+ 7 - 8
9	18.91	37.95	- 2 + 10	12.83	43.85	- 6 - 4	5.83	44.35	- 4 - 6	59.28	39.65	+ 10 - 5
10	18.77	38.21	- 5 + 8	12.59	43.95	- 2 - 7	5.58	44.28	0 - 9	59.12	39.42	+ 11 - 1
11	18.62	38.47	- 7 + 4	12.34	44.04	+ 2 - 9	5.34	44.20	+ 4 - 9	58.96	39.19	+ 11 + 3
12	18.47	38.73	- 7 - 1	12.10	44.13	+ 6 - 9	5.09	44.12	+ 8 - 7	58.81	38.96	+ 9 + 6
13	18.31	38.98	- 5 - 5	11.86	44.21	+ 9 - 6	4.85	44.03	+ 10 - 4	58.67	38.73	+ 5 + 9
14	18.15	39.22	- 1 - 8	11.61	44.29	+ 10 - 3	4.62	43.93	+ 11 0	58.53	38.49	+ 1 + 10
15	17.99	39.46	+ 3 - 9	11.36	44.36	+ 10 + 1	4.38	43.83	+ 10 + 4	58.39	38.25	- 3 + 9
16	17.82	39.70	+ 6 - 8	11.11	44.42	+ 9 + 5	4.14	43.73	+ 7 + 7	58.25	38.00	- 7 + 7
17	17.65	39.94	+ 9 - 5	10.86	44.48	+ 5 + 8	3.91	43.62	+ 4 + 9	58.12	37.75	- 9 + 4
18	17.48	40.17	+ 10 - 1	10.61	44.53	+ 2 + 9	3.68	43.50	- 1 + 10	58.00	37.50	- 11 - 1
19	17.30	40.39	+ 9 + 3	10.36	44.58	- 3 + 9	3.44	43.38	- 5 + 9	57.88	37.24	- 10 - 5
20	17.12	40.61	+ 7 + 6	10.11	44.62	- 7 + 8	3.21	43.25	- 8 + 6	57.76	36.98	- 8 - 9
21	16.94	40.82	+ 4 + 9	9.86	44.65	- 10 + 4	2.99	43.11	- 10 + 2	57.65	36.72	- 4 - 12
22	16.75	41.03	0 + 9	9.60	44.68	- 11 0	2.77	42.97	- 11 - 3	57.54	36.46	0 - 11
23	16.56	41.23	- 4 + 9	9.35	44.70	- 11 - 5	2.55	42.83	- 10 - 7	57.44	36.19	+ 4 - 9
24	16.36	41.43	- 8 + 6	9.10	44.71	- 9 - 9	2.33	42.68	- 7 - 11	57.34	35.92	+ 7 - 5
25	16.16	41.62	- 11 + 2	8.85	44.72	- 6 - 12	2.12	42.52	- 3 - 12	57.25	35.65	+ 8 0
26	15.96	41.81	- 12 - 2	8.59	44.72	- 1 - 12	1.91	42.36	+ 2 - 11	57.16	35.38	+ 6 + 5
27	15.75	41.99	- 11 - 6	8.34	44.72	+ 3 - 10	1.70	42.20	+ 5 - 8	57.08	35.11	+ 3 + 9
28	15.54	42.17	- 8 - 10	8.08	44.71	+ 7 - 6	1.49	42.03	+ 7 - 3	57.00	34.84	- 1 + 11
29	15.33	42.34	- 4 - 12	7.83	44.70	+ 8 0	1.29	41.85	+ 8 + 3	56.92	34.56	- 5 + 10
30	15.11	42.51	+ 1 - 11				1.09	41.67	+ 5 + 7	56.85	34.28	- 8 + 6
31	14.89	42.67	+ 5 - 8				0.89	41.49	+ 2 + 10	56.79	34.00	- 9 + 1
32	14.67	42.82	+ 8 - 4				0.70	41.30	- 2 + 11			

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22' 30"	12.402	+12.361	+85° 22' 40"	12.409	+12.369
40	12.409	+12.369	50	12.417	+12.376

$$\alpha_{1931.0} = 4^h 14^m 11^s.03$$

$$\delta_{1931.0} = +85^\circ 22' 17''.48$$

Ne) Grb 750 6^m.70

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	4 ^h 13 ^m	85° 22'	0.01 0.01	4 ^h 13 ^m	85° 22'	0.01 0.01	4 ^h 14 ^m	85° 22'	0.01 0.01	4 ^h 14 ^m	85° 22'	0.01 0.01
	+	in		+	in		+	in		+	in	
1	56.79	34.00	-9 + 1	57.25	25.04	+3 - 10	1.93	17.66	+11 - 2	10.02	13.33	+3 + 10
2	56.73	33.72	-8 - 3	57.35	24.77	+7 - 8	2.15	17.46	+11 + 2	10.31	13.26	-1 + 10
3	56.67	33.43	-4 - 7	57.45	24.49	+10 - 5	2.37	17.26	+9 + 6	10.61	13.19	-5 + 8
4	56.62	33.15	0 - 9	57.55	24.21	+11 - 1	2.60	17.07	+6 + 9	10.91	13.13	-8 + 5
5	56.58	32.86	+5 - 9	57.66	23.94	+10 + 3	2.83	16.88	+1 + 10	11.21	13.07	-10 + 1
6	56.54	32.58	+9 - 7	57.77	23.67	+8 + 7	3.06	16.69	-3 + 9	11.51	13.02	-11 - 3
7	56.50	32.29	+11 - 3	57.88	23.39	+4 + 9	3.29	16.51	-6 + 7	11.82	12.97	-9 - 8
8	56.47	32.00	+11 + 1	58.00	23.12	0 + 10	3.53	16.33	-9 + 4	12.13	12.93	-7 - 11
9	56.45	31.71	+10 + 5	58.12	22.86	-4 + 9	3.77	16.16	-11 0	12.43	12.89	-3 - 12
10	56.43	31.42	+7 + 8	58.25	22.59	-7 + 6	4.01	15.99	-10 - 5	12.74	12.86	+2 - 11
11	56.41	31.13	+3 + 10	58.38	22.33	-10 + 3	4.26	15.82	-8 - 9	13.05	12.84	+5 - 8
12	56.40	30.83	-1 + 10	58.52	22.07	-11 - 2	4.51	15.66	-5 - 11	13.36	12.82	+8 - 3
13	56.40	30.54	-5 + 8	58.66	21.81	-9 - 6	4.76	15.50	0 - 12	13.68	12.80	+8 + 3
14	56.40	30.24	-8 + 5	58.81	21.55	-7 - 10	5.02	15.35	+4 - 10	13.99	12.78	+6 + 8
15	56.40	29.95	-10 + 1	58.96	21.30	-3 - 12	5.27	15.20	+7 - 6	14.30	12.77	+2 + 11
16	56.41	29.66	-10 - 4	59.12	21.05	+2 - 11	5.53	15.06	+9 0	14.62	12.77	-2 + 11
17	56.43	29.37	-9 - 8	59.28	20.80	+6 - 8	5.79	14.92	+8 + 5	14.93	12.77	-5 + 9
18	56.45	29.07	-5 - 11	59.44	20.56	+8 - 3	6.06	14.78	+5 + 9	15.25	12.77	-8 + 5
19	56.47	28.78	-1 - 12	59.61	20.32	+9 + 2	6.33	14.65	+1 + 11	15.57	12.78	-8 0
20	56.50	28.49	+3 - 10	59.78	20.08	+7 + 7	6.60	14.52	-3 + 11	15.88	12.80	-6 - 5
21	56.53	28.19	+7 - 7	59.96	19.84	+3 + 10	6.88	14.40	-7 + 7	16.20	12.82	-2 - 8
22	56.57	27.90	+8 - 2	60.14	19.61	-1 + 11	7.15	14.28	-8 + 3	16.52	12.84	+3 - 10
23	56.62	27.61	+8 + 4	60.33	19.38	-5 + 9	7.43	14.16	-8 - 2	16.84	12.87	+7 - 9
24	56.67	27.32	+5 + 8	60.52	19.15	-8 + 5	7.71	14.05	-5 - 7	17.15	12.90	+10 - 6
25	56.72	27.04	+1 + 11	60.71	18.93	-9 0	7.99	13.94	-1 - 9	17.47	12.94	+11 - 1
26	56.78	26.75	-4 + 11	60.90	18.71	-7 - 4	8.28	13.84	+4 - 10	17.79	12.98	+11 + 3
27	56.85	26.46	-7 + 8	61.10	18.49	-4 - 8	8.56	13.74	+8 - 8	18.11	13.03	+9 + 7
28	56.92	26.18	-9 + 3	61.30	18.28	+1 - 10	8.85	13.65	+10 - 4	18.43	13.08	+5 + 9
29	56.99	25.89	-9 - 2	61.51	18.07	+5 - 9	9.14	13.56	+11 0	18.75	13.14	+1 + 10
30	57.07	25.61	-6 - 6	61.72	17.86	+9 - 6	9.43	13.48	+10 + 4	19.07	13.20	-3 + 9
31	57.16	25.32	-2 - 9	61.93	17.66	+11 - 2	9.72	13.40	+7 + 8	19.38	13.27	-7 + 7
32	57.25	25.04	+3 - 10				10.02	13.33	+3 + 10	19.70	13.34	-10 + 3

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22' 10"	12.387	+12.346	+85° 22' 30"	12.402	+12.361
20	12.394	+12.354	40	12.409	+12.369

$$\alpha_{1931.0} = 4^h 14^m 11^s.03$$

$$\delta_{1931.0} = +85^\circ 22' 17''.48$$

*) Tag der doppelten unteren Kulmination: Mai 26

Ne) Grb 750 6^m.70

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	4 ^h 14 ^m	85° 22'	^{0.01} _{0.01} + in	4 ^h 14 ^m	85° 22'	^{0.01} _{0.01} + in	4 ^h 14 ^m	85° 22'	^{0.01} _{0.01} + in	4 ^h 14 ^m	85° 22'	^{0.01} _{0.01} + in
1	19.70	13.34	-10 + 3	28.87	17.54	- 9 - 8	36.39	25.56	+ 5 - 8	40.34	35.84	+ 3 + 8
2	20.02	13.42	-11 - 2	29.15	17.75	- 6 -11	36.58	25.87	+ 7 - 4	40.39	36.19	- 1 +10
3	20.34	13.50	-10 - 6	29.43	17.96	- 2 -12	36.77	26.18	+ 7 + 1	40.44	36.53	- 5 +10
4	20.65	13.58	- 8 -10	29.71	18.17	+ 2 -10	36.95	26.49	+ 5 + 6	40.48	36.88	- 9 + 7
5	20.97	13.67	- 4 -12	29.98	18.39	+ 5 - 7	37.13	26.80	+ 2 + 9	40.52	37.22	-10 + 2
6	21.28	13.76	0 -12	30.26	18.61	+ 7 - 2	37.31	27.12	- 3 +10	40.55	37.56	- 9 - 3
7	21.60	13.86	+ 3 - 9	30.53	18.84	+ 6 + 3	37.48	27.44	- 7 + 9	40.58	37.91	- 6 - 7
8	21.92	13.96	+ 6 - 5	30.80	19.07	+ 4 + 8	37.65	27.76	- 9 + 5	40.60	38.25	- 1 -10
9	22.23	14.07	+ 7 0	31.07	19.30	0 +10	37.81	28.08	-10 0	40.62	38.59	+ 4 -10
10	22.55	14.18	+ 6 + 6	31.33	19.54	- 4 +10	37.97	28.40	- 8 - 5	40.63	38.93	+ 8 - 8
11	22.86	14.30	+ 3 + 9	31.59	19.78	- 7 + 8	38.13	28.73	- 4 - 8	40.64	39.27	+11 - 4
12	23.17	14.42	- 1 +11	31.85	20.02	- 9 + 3	38.28	29.05	+ 1 -10	40.64	39.61	+12 + 1
13	23.49	14.55	- 4 +10	32.11	20.27	- 8 - 2	38.43	29.38	+ 6 - 9	40.63	39.95	+10 + 5
14	23.80	14.68	- 7 + 6	32.36	20.52	- 5 - 6	38.57	29.71	+10 - 6	40.62	40.28	+ 8 + 9
15	24.11	14.81	- 8 + 2	32.61	20.77	- 1 - 9	38.71	30.04	+12 - 2	40.61	40.62	+ 4 +10
16	24.42	14.95	- 7 - 3	32.86	21.03	+ 4 -10	38.84	30.38	+12 + 3	40.59	40.96	- 1 +10
17	24.72	15.09	- 3 - 7	33.10	21.29	+ 8 - 8	38.97	30.72	+10 + 7	40.57	41.29	- 4 + 9
18	25.03	15.24	+ 1 - 9	33.34	21.55	+11 - 4	39.09	31.05	+ 6 +10	40.54	41.61	- 8 + 5
19	25.34	15.39	+ 6 - 9	33.58	21.82	+12 0	39.21	31.39	+ 2 +11	40.50	41.94	- 9 + 1
20	25.64	15.55	+ 9 - 7	33.82	22.09	+11 + 5	39.32	31.73	- 2 +10	40.46	42.27	- 9 - 3
21	25.94	15.71	+11 - 3	34.05	22.37	+ 8 + 8	39.43	32.07	- 6 + 8	40.42	42.59	- 8 - 7
22	26.24	15.87	+12 + 2	34.28	22.65	+ 5 +10	39.54	32.41	- 8 + 4	40.37	42.91	- 5 -10
23	26.54	16.04	+10 + 6	34.51	22.93	0 +10	39.64	32.75	-10 - 1	40.31	43.24	- 1 -11
24	26.84	16.21	+ 7 + 9	34.73	23.21	- 4 + 9	39.74	33.09	- 9 - 5	40.25	43.56	+ 3 -10
25	27.14	16.39	+ 3 +10	34.95	23.49	- 7 + 6	39.83 39.92	33.44 33.78	- 7 - 9 - 4 -11	40.19	43.87	+ 6 - 7
26	27.43	16.57	- 2 +10	35.17	23.78	- 9 + 2	40.00	34.12	0 -11	40.12	44.18	+ 8 - 3
27	27.72	16.76	- 5 + 8	35.38	24.07	-10 - 2	40.08	34.47	+ 4 - 9	40.05	44.49	+ 8 + 3
28	28.01	16.95	- 8 + 4	35.59	24.36	- 9 - 6	40.15	34.81	+ 7 - 6	39.97	44.80	+ 5 + 7
29	28.30	17.14	-10 0	35.79	24.66	- 6 -10	40.22	35.16	+ 8 - 1	39.89	45.10	+ 2 +10
30	28.58	17.34	-10 - 4	35.99	24.96	- 3 -11	40.28	35.50	+ 6 + 4	39.80	45.40	- 3 +10
31	28.87	17.54	- 9 - 8	36.19	25.26	+ 1 -11	40.34	35.84	+ 3 + 8	39.71	45.70	- 7 + 8
32				36.39	25.56	+ 5 - 8				39.61	45.99	- 9 + 4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22' 10"	12.387	+12.346	+85° 22' 30"	12.402	+12.361	+85° 22' 40"	12.409	+12.369
20	12.394	+12.354	40	12.409	+12.369	50	12.417	+12.376

$$\alpha_{1931.0} = 4^h 14^m 11^s.03$$

$$\delta_{1931.0} = +85^\circ 22' 17''.48$$

N α 51 Hev. Cephei 5^m.26

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl. Glider	AR.	Dekl.	Gl. Glider	AR.	Dekl.	Gl. Glider	AR.	Dekl.	Gl. Glider
	7 ^h 9 ^m	87° 9'	0.01 | 0.01	7 ^h 9 ^m	87° 9'	0.01 | 0.01	7 ^h 9 ^m	87° 9'	0.01 | 0.01	7 ^h 8 ^m	87° 9'	0.01 | 0.01
	+	in		+	in		+	in		+	in	
1	17.38	40.19	-18 0	18.26	50.33	+7 - 8	12.06	57.59	+9 - 6	60.46	61.23	+6 +10
2	17.55	40.50	-16 - 5	18.14	50.63	+12 - 4	11.74	57.79	+13 - 1	60.05	61.25	0 +11
3	17.70	40.81	-12 - 9	18.01	50.93	+15 + 1	11.42	57.98	+14 + 4	59.65	61.27	-6 + 9
4	17.85	41.13	-4 -11	17.88	51.22	+14 + 6	11.09	58.17	+11 + 8	59.24	61.28	-10 + 5
5	17.99	41.44	+3 -10	17.74	51.52	+10 + 9	10.75	58.36	+5 +11	58.83	61.28	-11 0
6	18.12	41.76	+10 - 7	17.59	51.81	+3 +10	10.41	58.54	-1 +10	58.43	61.28	-9 - 5
7	18.24	42.07	+15 - 2	17.43	52.10	-3 + 9	10.07	58.71	-6 + 7	58.02	61.27	-5 - 9
8	18.35 18.45	42.39 42.71	+16 +3 +13 +7	17.26	52.39	-8 + 6	9.73	58.88	-10 + 3	57.61	61.26	+1 -11
9	18.55	43.03	+7 +10	17.09	52.67	-10 + 1	9.38	59.05	-10 - 3	57.21	61.24	+7 -11
10	18.64	43.35	+1 +10	16.90	52.95	-9 - 4	9.02	59.21	-7 - 7	56.80	61.22	+12 - 9
11	18.72	43.67	-5 + 8	16.71	53.23	-6 - 8	8.66	59.36	-2 -10	56.40	61.19	+15 - 5
12	18.78	43.99	-10 + 4	16.51	53.50	-1 -11	8.29	59.51	+3 -11	56.00	61.15	+16 - 1
13	18.84	44.31	-11 - 1	16.31	53.77	+5 -11	7.92	59.65	+9 -10	55.60	61.11	+14 + 3
14	18.89	44.63	-9 - 6	16.10	54.04	+10 - 9	7.55	59.79	+13 - 8	55.20	61.06	+10 + 7
15	18.93	44.96	-5 - 9	15.88	54.31	+13 - 6	7.18	59.92	+15 - 4	54.81	61.00	+4 + 9
16	18.96	45.28	+1 -11	15.65	54.57	+14 - 2	6.80	60.04	+15 + 1	54.41	60.94	-2 +10
17	18.98	45.60	+6 -10	15.41	54.83	+13 + 3	6.42	60.16	+12 + 5	54.02	60.87	-8 + 9
18	18.99	45.92	+11 - 8	15.17	55.08	+10 + 6	6.04	60.27	+8 + 8	53.63	60.80	-14 + 6
19	19.00	46.24	+13 - 4	14.92	55.33	+5 + 9	5.65	60.38	+2 +10	53.24	60.72	-17 + 2
20	19.00	46.56	+14 0	14.66	55.58	-1 +11	5.26	60.48	-5 +10	52.86	60.64	-17 - 2
21	18.99	46.88	+12 + 4	14.40	55.82	-8 +10	4.87	60.58	-11 + 8	52.48	60.55	-15 - 6
22	18.97	47.20	+8 + 8	14.13	56.05	-14 + 7	4.47	60.67	-16 + 5	52.10	60.46	-10 - 9
23	18.94	47.52	+2 +10	13.85	56.28	-18 + 4	4.08	60.75	-18 + 1	51.72	60.36	-3 -10
24	18.90	47.83	-4 +11	13.56	56.51	-19 - 1	3.68	60.83	-17 - 4	51.35	60.25	+4 - 8
25	18.85	48.15	-11 + 9	13.27	56.74	-17 - 5	3.28	60.90	-14 - 8	50.98	60.14	+9 - 5
26	18.79	48.46	-16 + 6	12.98	56.96	-12 - 9	2.88	60.96	-8 -10	50.61	60.02	+12 0
27	18.72	48.78	-19 + 2	12.68	57.17	-5 -10	2.48	61.02	0 -10	50.25	59.90	+12 + 5
28	18.64	49.09	-18 - 3	12.37	57.38	+3 - 9	2.07	61.07	+7 - 7	49.89	59.77	+8 + 9
29	18.56	49.40	-15 - 7	12.06	57.59	+9 - 6	1.67	61.12	+11 - 3	49.54	59.64	+2 +11
30	18.47	49.71	-8 -10				1.27	61.16	+13 + 3	49.19	59.50	-4 +10
31	18.37	50.02	-1 -10				0.86	61.20	+11 + 7	48.84	59.36	-9 + 7
32	18.26	50.33	+7 - 8				0.46	61.23	+6 +10			

δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9' 40"	20.191	+20.166	+87° 9' 60"	20.230	+20.206
50	20.210	+20.186	70	20.250	+20.225

$$\alpha_{1931.0} = 7^h 8^m 49^s.97$$

$$\delta_{1931.0} = +87^\circ 9' 34''.90$$

Nd) 51 Hev. Cephei 5^m.26

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	7 ^h 8 ^m	+ 87° 9'	0.01|0.01	7 ^h 8 ^m	+ 87° 9'	0.01|0.01	7 ^h 8 ^m	+ 87° 9'	0.01|0.01	7 ^h 8 ^m	+ 87° 9'	0.01|0.01
1	48.84	59.36	- 9 + 7	40.71	52.70	- 5 - 10	39.01	43.66	+ 10 - 9	44.17	34.01	+ 12 + 6
2	48.50	59.21	- 12 + 2	40.55	52.43	+ 1 - 11	39.07	43.35	+ 14 - 5	44.45	33.72	+ 7 + 9
3	48.16	59.06	- 11 - 3	40.40	52.16	+ 8 - 10	39.13	43.03	+ 15 - 1	44.73	33.43	+ 1 + 10
4	47.83	58.90	- 7 - 8	40.25	51.88	+ 12 - 8	39.20	42.71	+ 14 + 3	45.02	33.14	- 5 + 10
5	47.50	58.73	- 2 - 11	40.11	51.60	+ 15 - 4	39.28	42.39	+ 10 + 7	45.31	32.86	- 11 + 8
6	47.18	58.56	+ 4 - 11	39.97	51.32	+ 15 0	39.37	42.07	+ 5 + 9	45.61	32.57	- 16 + 5
7	46.86	58.39	+ 10 - 10	39.84	51.03	+ 13 + 5	39.47	41.75	- 1 + 10	45.92	32.29	- 18 0
8	46.54	58.21	+ 14 - 7	39.72	50.74	+ 9 + 8	39.57	41.43	- 8 + 9	46.23	32.01	- 17 - 4
9	46.23	58.03	+ 16 - 2	39.61	50.45	+ 3 + 10	39.68	41.11	- 13 + 7	46.55	31.73	- 13 - 8
10	45.92	57.84	+ 15 + 2	39.50	50.16	- 4 + 10	39.80	40.79	- 17 + 3	46.87	31.46	- 7 - 10
11	45.62	57.65	+ 12 + 6	39.40	49.86	- 10 + 9	39.92	40.48	- 17 - 1	47.20	31.19	0 - 9
12	45.33	57.45	+ 7 + 9	39.31	49.57	- 14 + 5	40.05	40.16	- 15 - 6	47.54	30.92	+ 7 - 7
13	45.04	57.25	+ 1 + 10	39.23	49.27	- 17 + 1	40.19	39.85	- 10 - 9	47.88	30.65	+ 12 - 3
14	44.76	57.05	- 6 + 10	39.16	48.97	- 16 - 3	40.34	39.53	- 3 - 10	48.23	30.39	+ 14 + 2
15	44.48	56.84	- 11 + 8	39.09	48.67	- 13 - 7	40.49	39.22	+ 4 - 9	48.58	30.13	+ 12 + 7
16	44.21	56.63	- 16 + 4	39.03	48.36	- 7 - 10	40.65	38.90	+ 10 - 6	48.94	29.87	+ 7 + 10
17	43.94	56.41	- 17 0	38.98	48.06	0 - 10	40.82	38.59	+ 14 - 1	49.30	29.61	+ 1 + 11
18	43.68	56.19	- 16 - 5	38.93	47.75	+ 7 - 8	41.00	38.27	+ 14 + 4	49.67	29.36	- 5 + 9
19	43.43	55.96	- 12 - 8	38.89	47.44	+ 12 - 4	41.18	37.96	+ 11 + 8	50.04	29.11	- 9 + 5
20	43.18	55.73	- 5 - 10	38.86	47.13	+ 14 + 1	41.37	37.65	+ 5 + 11	50.42	28.86	- 11 0
21	42.94	55.50	+ 2 - 10	38.84	46.82	+ 13 + 6	41.57	37.34	- 2 + 10	50.80	28.62	- 9 - 6
22	42.70	55.26	+ 9 - 7	38.82	46.51	+ 8 + 10	41.77	37.03	- 8 + 8	51.19	28.38	- 5 - 10
23	42.47	55.02	+ 13 - 2	38.81	46.20	+ 1 + 11	41.98	36.72	- 11 + 3	51.59	28.14	+ 1 - 11
24	42.25	54.78	+ 13 + 3	38.81	45.88	- 5 + 10	42.20	36.42	- 12 - 2	51.99	27.90	+ 7 - 11
25	42.03	54.53	+ 10 + 8	38.81	45.57	- 10 + 6	42.42	36.11	- 9 - 7	52.39	27.67	+ 12 - 9
26	41.82	54.28	+ 5 + 11	38.82	45.26	- 12 + 1	42.65	35.81	- 4 - 10	52.80	27.44	+ 15 - 5
27	41.62	54.03	- 2 + 11	38.84	44.94	- 11 - 4	42.89	35.50	+ 3 - 11	53.21	27.21	+ 16 0
28	41.42	53.77	- 8 + 9	38.87	44.62	- 7 - 9	43.13	35.20	+ 9 - 10	53.63	26.99	+ 14 + 4
29	41.23	53.51	- 12 + 4	38.91	44.30	- 2 - 11	43.38	34.90	+ 13 - 7	54.05	26.77	+ 10 + 8
30	41.05	53.24	- 12 - 1	38.96	43.98	+ 5 - 11	43.64	34.60	+ 15 - 3	54.48	26.56	+ 4 + 10
31	40.88	52.97	- 10 - 6	39.01	43.66	+ 10 - 9	43.90	34.30	+ 15 + 2	54.91	26.35	- 3 + 10
32	40.71	52.70	- 5 - 10				44.17	34.01	+ 12 + 6	55.35	26.14	- 9 + 9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9' 20"	20.151	+20.126	+87° 9' 40"	20.191	+20.166	+87° 9' 50"	20.210	+20.186
30	20.171	+20.146	50	20.210	+20.186	60	20.230	+20.206

$$\alpha_{1931.0} = 7^h 8^m 49^s.97$$

$$\delta_{1931.0} = +87^\circ 9' 34''.90$$

*) Tag der doppelten unteren Kulmination: Juli 10

Nd) 51 Hev. Cephei 5^m.26

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder
	7 ^h 8 ^m	+ 87° 9'	0.01 0.01	7 ^h 9 ^m	+ 87° 9'	0.01 0.01	7 ^h 9 ^m	+ 87° 9'	0.01 0.01	7 ^h 9 ^m	+ 87° 9'	0.01 0.01
1	55.35	26.14	— 9 + 9	9.99	21.72	— 17 — 1	26.37	21.46	— 2 — 10	40.37	25.70	+ 12 0
2	55.79	25.93	— 14 + 6	10.51	21.64	— 16 — 5	26.89	21.53	+ 5 — 8	40.77	25.91	+ 12 + 5
3	56.23	25.73	— 17 + 2	11.04	21.56	— 12 — 8	27.40	21.60	+ 10 — 4	41.16	26.12	+ 8 + 9
4	56.68	25.53	— 18 — 2	11.56	21.49	— 6 — 10	27.91	21.68	+ 12 + 1	41.54	26.34	+ 2 + 11
5	57.13	25.34	— 15 — 6	12.09	21.42	+ 1 — 9	28.42	21.77	+ 10 + 7	41.92	26.57	— 4 + 11
6	57.59	25.15	— 10 — 9	12.62	21.36	+ 7 — 6	28.93	21.86	+ 6 + 10	42.29	26.80	— 10 + 8
7	58.05	24.96	— 3 — 10	13.15	21.30	+ 11 — 1	29.44	21.96	0 + 11	42.66	27.03	— 14 + 3
8	58.51	24.78	+ 3 — 8	13.68	21.25	+ 12 + 4	29.94	22.06	— 7 + 10	43.02	27.27	— 14 — 2
9	58.98	24.60	+ 9 — 4	14.21	21.20	+ 9 + 8	30.44	22.16	— 11 + 6	43.37	27.51	— 10 — 7
10	59.45	24.43	+ 12 0	14.74	21.15	+ 4 + 11	30.93	22.27	— 13 + 1	43.71	27.76	— 4 — 10
11	59.92	24.26	+ 12 + 5	15.27	21.11	— 2 + 11	31.42	22.39	— 12 — 4	44.05	28.01	+ 3 — 12
12	60.40	24.09	+ 8 + 9	15.81	21.08	— 8 + 8	31.91	22.51	— 7 — 9	44.38	28.26	+ 10 — 10
13	60.88	23.93	+ 3 + 11	16.34	21.05	— 11 + 4	32.39	22.63	0 — 11	44.71	28.51	+ 15 — 7
14	61.36	23.77	— 3 + 10	16.87	21.03	— 12 — 1	32.87	22.76	+ 7 — 12	45.03	28.77	+ 17 — 3
15	61.85	23.61	— 8 + 7	17.41	21.01	— 9 — 7	33.35	22.90	+ 13 — 9	45.34	29.03	+ 17 + 2
16	62.34	23.46	— 11 + 4	17.94	21.00	— 4 — 10	33.82	23.04	+ 16 — 6	45.65	29.30	+ 13 + 6
17	62.84	23.31	— 11 — 4	18.47	20.99	+ 3 — 12	34.29	23.19	+ 18 — 1	45.95	29.57	+ 8 + 9
18	63.33	23.17	— 7 — 8	19.00	20.99	+ 10 — 11	34.75	23.34	+ 16 + 3	46.24	29.84	+ 2 + 10
19	63.83	23.03	— 1 — 11	19.54	20.99	+ 14 — 8	35.21	23.49	+ 12 + 7	46.52	30.11	— 4 + 9
20	64.33	22.90	+ 6 — 12	20.07	20.99	+ 17 — 4	35.67	23.65	+ 6 + 9	46.79	30.39	— 10 + 7
21	64.83	22.77	+ 11 — 10	20.60	21.00	+ 17 + 1	36.12	23.82	0 + 10	47.05	30.67	— 14 + 4
22	65.34	22.64	+ 15 — 6	21.13	21.02	+ 14 + 5	36.57	23.99	— 7 + 9	47.31	30.95	— 16 0
23	65.84	22.52	+ 17 — 2	21.66	21.04	+ 9 + 8	37.01	24.16	— 12 + 6	47.56	31.24	— 15 — 5
24	66.35	22.40	+ 16 + 2	22.19	21.07	+ 3 + 10	37.45	24.33	— 15 + 2	47.80	31.53	— 11 — 8
25	66.86	22.29	+ 12 + 6	22.72	21.10	— 3 + 10	37.88	24.51	— 16 — 2	48.04	31.82	— 6 — 10
26	67.38	22.18	+ 7 + 9	23.24	21.14	— 9 + 8	38.31	24.70	— 14 — 6	48.27	32.11	+ 1 — 10
27	67.90	22.08	0 + 10	23.77	21.18	— 14 + 5	38.73	24.89	— 9 — 9	48.49	32.40	+ 7 — 7
28	68.42	21.98	— 6 + 9	24.30	21.23	— 16 + 1	39.15	25.08	— 3 — 10	48.70	32.70	+ 12 — 3
29	68.94	21.89	— 12 + 7	24.82	21.28	— 16 — 4	39.56	25.28	+ 3 — 9	48.90	33.00	+ 13 + 2
30	69.46	21.80	— 16 + 3	25.34	21.33	— 13 — 7	39.97	25.49	+ 9 — 5	49.09	33.30	+ 11 + 7
31	69.99	21.72	— 17 — 1	25.86	21.39	— 8 — 9	40.37	25.70	+ 12 0	49.27	33.61	+ 6 + 10
32				26.37	21.46	— 2 — 10				49.45	33.91	— 1 + 11

δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9' 20"	20.151	+20.126	+87° 9' 30"	20.171	+20.146
30	20.171	+20.146	40	20.191	+20.166

$$\alpha_{1931.0} = 7^h 8^m 49^s.97$$

$$\delta_{1931.0} = +87^\circ 9' 34''.90$$

Ne 1 Hev. Draconis 4^m.58

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	9 ^h 27 ^m	81° 37'	⁺ 0.01 0.01	9 ^h 27 ^m	81° 38'	⁺ 0.01 0.01	9 ^h 27 ^m	81° 38'	⁺ 0.01 0.01	9 ^h 27 ^m	81° 38'	⁺ 0.01 0.01
1	32.76	54.01	-6 + 7	35.89	1.33	-2 - 8	36.29	9.99	+2 - 8	34.14	17.83	+4 + 6
2	32.90	54.19	-7 + 2	35.95	1.62	+1 - 9	36.26	10.28	+5 - 5	34.04	18.02	+2 + 9
3	33.04	54.37	-6 - 3	36.00	1.91	+4 - 8	36.23	10.57	+6 - 1	33.93	18.21	0 + 9
4	33.17	54.55	-4 - 7	36.05	2.20	+5 - 5	36.19	10.86	+5 + 3	33.83	18.39	-2 + 7
5	33.30	54.74	-1 - 9	36.09	2.49	+6 0	36.15	11.15	+4 + 7	33.72	18.57	-4 + 3
6	33.43	54.93	+2 - 9	36.14	2.78	+5 + 4	36.11	11.43	+2 + 9	33.61	18.75	-4 - 1
7	33.56	55.13	+5 - 7	36.18	3.07	+3 + 7	36.06	11.72	-1 + 8	33.50	18.92	-3 - 6
8	33.68	55.33	+6 - 3	36.22	3.37	+1 + 8	36.01	12.00	-3 + 5	33.39	19.08	-2 - 10
9	33.80	55.54	+6 + 1	36.26	3.67	-2 + 7	35.96	12.28	-4 + 1	33.27	19.24	0 - 12
10	33.92	55.75	+5 + 6	36.29	3.97	-3 + 4	35.91	12.56	-4 - 4	33.15	19.39	+2 - 12
11	34.04	55.97	+2 + 8	36.32	4.27	-4 0	35.85	12.83	-3 - 8	33.03	19.54	+4 - 10
12	34.15	56.19	0 + 8	^{36.34} _{36.36}	^{4.57} _{4.87}	^{-4 - 5} _{-3 - 9}	35.79	13.10	-1 - 11	32.92	19.68	+5 - 6
13	34.26	56.42	-3 + 6	36.38	5.17	-1 - 11	35.73	13.37	+1 - 12	32.80	19.82	+6 - 2
14	34.37	56.65	-4 + 3	36.40	5.48	+2 - 11	35.67	13.63	+3 - 11	32.68	19.95	+5 + 2
15	34.48	56.89	-4 - 2	36.41	5.78	+4 - 10	35.60	13.89	+4 - 8	32.56	20.08	+4 + 6
16	34.59	57.13	-4 - 6	36.42	6.08	+5 - 7	35.53	14.15	+5 - 5	32.44	20.20	+1 + 9
17	34.69	57.37	-2 - 9	36.43	6.39	+5 - 3	35.46	14.41	+5 0	32.31	20.32	-1 + 11
18	34.79	57.61	0 - 11	36.44	6.69	+5 + 2	35.39	14.67	+4 + 4	32.19	20.43	-4 + 10
19	34.89	57.85	+2 - 11	36.44	6.99	+4 + 6	35.31	14.92	+2 + 8	32.07	20.54	-6 + 8
20	34.98	58.10	+4 - 8	36.44	7.29	+2 + 9	35.23	15.17	0 + 10	31.94	20.64	-7 + 4
21	35.07	58.35	+5 - 5	36.43	7.60	-1 + 11	35.15	15.41	-2 + 11	31.81	20.74	-7 0
22	35.16	58.61	+5 - 1	36.42	7.90	-3 + 11	35.07	15.65	-4 + 10	31.69	20.83	-5 - 4
23	35.25	58.87	+4 + 4	36.41	8.20	-5 + 10	34.98	15.89	-6 + 7	31.56	20.92	-3 - 7
24	35.33	59.13	+3 + 8	36.40	8.50	-7 + 6	34.90	16.12	-7 + 3	31.44	21.00	0 - 8
25	35.41	59.40	+1 + 10	36.38	8.80	-7 + 2	34.81	16.35	-6 - 1	31.31	21.07	+3 - 7
26	35.48	59.67	-2 + 12	36.36	9.10	-6 - 3	34.72	16.57	-5 - 5	31.18	21.14	+5 - 4
27	35.56	59.94	-4 + 11	36.34	9.40	-4 - 7	34.63	16.79	-2 - 8	31.05	21.20	+5 0
28	35.63	60.21	-6 + 8	36.32	9.69	-1 - 8	34.53	17.01	+1 - 8	30.93	21.26	+5 + 5
29	35.70	60.49	-7 + 4	36.29	9.99	+2 - 8	34.44	17.22	+3 - 6	30.80	21.31	+3 + 8
30	35.77	60.77	-7 0				34.34	17.43	+5 - 2	30.67	21.35	+1 + 10
31	35.83	61.05	-5 - 5				34.24	17.63	+5 + 2	30.54	21.39	-2 + 9
32	35.89	61.33	-2 - 8				34.14	17.83	+4 + 6			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 37' 50"	6.870	+6.797	+81° 38' 0"	6.873	+6.799	+81° 38' 20"	6.877	+6.804
60	6.873	+6.799	10	6.875	+6.802	30	6.879	+6.806

$$\alpha_{1931.0} = 9^h 27^m 23^s.94$$

$$\delta_{1931.0} = +81^\circ 38' 1''.34$$

Ne) 1. Hev. Draconis 4^m.58

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	9 ^h 27 ^m	81° 38'	+ in o.or | o.or	9 ^h 27 ^m	81° 38'	+ in o.or | o.or	9 ^h 27 ^m	81° 38'	+ in o.or | o.or	9 ^h 27 ^m	81° 37'	+ in o.or | o.or
1	30.54	21.39	-2 + 9	26.71	19.82	-4 - 6	24.07	13.71	+2 -11	23.19	64.20	+5 0
2	30.41	21.42	-4 + 6	26.60	19.68	-2 -10	24.02	13.45	+4 -10	23.20	63.86	+4 + 5
3	30.28	21.45	-5 + 1	26.49	19.54	0 -12	23.96	13.18	+5 - 7	23.21	63.52	+2 + 8
4	30.15	21.47	-4 - 4	26.38	19.39	+3 -11	23.90	12.91	+6 - 2	23.22	63.18	0 +10
5	30.02	21.49	-3 - 8	26.27	19.24	+5 - 9	23.85	12.63	+5 + 2	23.23	62.84	-2 +11
6	29.89	21.50	-1 -11	26.17	19.08	+6 - 5	23.80	12.35	+4 + 6	23.24	62.50	-5 +10
7	29.76	21.51	+2 -12	26.07	18.92	+6 - 1	23.74	12.07	+2 + 9	23.26	62.15	-6 + 7
8	29.64	21.51	+4 -11	25.96	18.75	+5 + 3	23.69	11.78	-1 +11	23.28	61.81	-7 + 3
9	29.51	21.50	+5 - 8	25.86	18.58	+3 + 7	23.65	11.49	-3 +10	23.30	61.46	-6 - 1
10	29.38	21.49	+6 - 4	25.76	18.40	+1 +10	23.60	11.20	-5 + 8	23.33	61.12	-4 - 5
11	29.25	21.47	+5 0	25.66	18.22	-2 +11	23.56	10.91	-6 + 5	23.36	60.77	-2 - 8
12	29.13	21.45	+4 + 5	25.56	18.03	-4 +10	23.53	10.61	-7 + 1	23.39	60.42	+1 - 8
13	29.00	21.42	+2 + 8	25.47	17.84	-6 + 7	23.49	10.31	-6 - 4	23.42	60.07	+4 - 7
14	28.87	21.39	0 +10	25.38	17.65	-7 + 3	23.45	10.01	-3 - 7	23.46	59.73	+5 - 3
15	28.75	21.35	-3 +10	25.29	17.45	-6 - 1	23.42	9.70	0 - 9	23.49	59.38	+6 + 1
16	28.62	21.30	-5 + 9	25.20	17.25	-5 - 5	23.39	9.39	+2 - 9	23.53	59.03	+5 + 6
17	28.49	21.25	-6 + 6	25.11	17.04	-2 - 8	23.35	9.08	+5 - 6	23.57	58.68	+2 + 9
18	28.37	21.19	-7 + 1	25.02	16.83	+1 - 9	23.32	8.77	+6 - 2	23.61	58.33	0 + 9
19	28.24	21.13	-6 - 3	24.94	16.61	+3 - 8	23.30	8.46	+6 + 3	23.65	57.98	-2 + 7
20	28.12	21.06	-4 - 7	24.86	16.39	+5 - 4	23.28	8.15	+4 + 7	23.70	57.63	-4 + 4
21	27.99	20.98	-1 - 9	24.78	16.16	+6 0	23.26	7.83	+1 + 9	23.75	57.28	-4 - 1
22	27.87	20.90	+2 - 8	24.70	15.93	+5 + 5	23.24	7.50	-1 + 9	23.80	56.93	-4 - 6
23	27.75	20.82	+4 - 6	24.62	15.70	+3 + 9	23.23	7.18	-3 + 6	23.86	56.59	-2 -10
24	27.63	20.73	+5 - 2	24.55	15.46	0 +10	23.22	6.86	-5 + 2	23.91	56.24	0 -12
25	27.51	20.63	+5 + 3	24.47	15.22	-2 + 9	23.21	6.53	-5 - 3	23.97	55.89	+2 -11
26	27.39	20.53	+4 + 7	24.40	14.98	-4 + 5	23.20	6.20	-3 - 7	24.03	55.54	+4 - 9
27	27.28	20.43	+2 +10	24.33	14.73	-5 0	23.19	5.88	-1 -10	24.09	55.20	+5 - 6
28	27.16	20.32	-1 +10	24.26	14.48	-4 - 4	23.18	5.55	+1 -12	24.15	54.85	+6 - 1
29	27.04	20.20	-3 + 8	24.20	14.23	-3 - 8	23.18	5.21	+3 -11	24.22	54.50	+5 + 3
30	26.93	20.08	-5 + 3	24.13	13.97	0 -11	23.18	4.87	+5 - 8	24.29	54.16	+3 + 7
31	26.82	19.95	-5 - 2	24.07	13.71	+2 -11	23.18	4.54	+6 - 4	24.36	53.81	+1 + 9
32	26.71	19.82	-4 - 6				23.19	4.20	+5 0	24.43	53.47	-1 +11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 37' 50"	6.870	+6.797	+81° 38' 0"	6.873	+6.799	+81° 38' 20"	6.877	+6.804
60	6.873	+6.799	10	6.875	+6.802	30	6.879	+6.806

$$\alpha_{1931.0} = 9^h 27^m 23^s.94$$

$$\delta_{1931.0} = +81^\circ 38' 1''.34$$

*) Tag der doppelten unteren Kulmination: Aug. 14

Ne) 1. Hev. Draconis 4^m.58

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	9 ^h 27 ^m	81° 37'	+ 0.01 | 0.01	9 ^h 27 ^m	81° 37'	+ 0.01 | 0.01	9 ^h 27 ^m	81° 37'	+ 0.01 | 0.01	9 ^h 27 ^m	81° 37'	+ 0.01 | 0.01
1	24.43	53.47	-1 + 11	27.53	43.88	-6 + 6	32.26	36.74	-3 - 7	37.54	34.14	+4 - 5
2	24.51	53.13	-4 + 10	27.66	43.60	-7 + 2	32.43	36.58	0 - 8	37.72	34.14	+5 0
3	24.58	52.78	-6 + 8	27.79	43.32	-6 - 2	32.60	36.42	+3 - 6	37.90	34.14	+5 + 4
4	24.66	52.44	-7 + 4	27.92	43.04	-4 - 6	32.77	36.27	+4 - 3	38.07	34.15	+3 + 8
5	24.74	52.10	-7 0	28.06	42.76	-2 - 8	32.95	36.12	+5 + 2	38.25	34.17	+1 + 11
6	24.82	51.76	-5 - 4	28.20	42.49	+1 - 7	33.12	35.98	+4 + 6	38.42	34.19	-2 + 10
7	24.91	51.43	-3 - 7	28.34	42.22	+3 - 5	33.29	35.84	+2 + 10	38.60	34.22	-4 + 8
8	25.00	51.09	0 - 8	28.48	41.95	+5 - 1	33.47	35.71	0 + 11	38.77	34.25	-5 + 3
9	25.09	50.75	+2 - 7	28.63	41.69	+5 + 3	33.64	35.58	-3 + 9	38.94	34.29	-5 - 2
10	25.18	50.42	+4 - 4	28.77	41.43	+4 + 7	33.82	35.46	-4 + 5	39.11	34.34	-4 - 7
11	25.27	50.09	+5 0	28.91	41.18	+1 + 10	34.00	35.34	-5 + 1	39.28	34.39	-1 - 11
12	25.37	49.76	+5 + 4	29.06	40.93	-1 + 10	34.17	35.23	-4 - 5	39.45	34.45	+1 - 12
13	25.46	49.43	+3 + 8	29.21	40.68	-3 + 7	34.35	35.12	-2 - 9	39.61	34.51	+4 - 11
14	25.56	49.11	+1 + 9	29.36	40.44	-4 + 3	34.53	35.02	0 - 12	39.78	34.58	+5 - 8
15	25.66	48.78	-2 + 8	29.51	40.20	-5 - 2	34.70	34.92	+3 - 12	39.95	34.65	+6 - 4
16	25.76	48.46	-4 + 5	29.66	39.96	-4 - 7	34.88	34.83	+5 - 10	40.11	34.73	+6 0
17	25.87	48.14	-5 0	29.81	39.73	-1 - 11	35.06	34.74	+6 - 7	40.27	34.81	+5 + 4
18	25.97	47.82	-4 - 5	29.97	39.50	+1 - 12	35.24	34.66	+6 - 3	40.43	34.90	+3 + 7
19	26.08	47.50	-2 - 9	30.12	39.27	+3 - 12	35.42	34.59	+6 + 2	40.59	35.00	0 + 9
20	26.20	47.18	0 - 11	30.28	39.05	+5 - 9	35.60	34.52	+4 + 5	40.75	35.10	-2 + 10
21	26.31	46.87	+2 - 12	30.44	38.84	+6 - 5	35.77	34.46	+2 + 8	40.91	35.21	-4 + 8
22	26.42	46.56	+4 - 11	30.60	38.63	+6 - 1	35.95	34.40	0 + 10	41.07	35.32	-6 + 5
23	26.54	46.25	+5 - 8	30.76	38.42	+5 + 3	36.13	34.35	-3 + 9	41.22	35.44	-6 + 1
24	26.66	45.94	+6 - 4	30.93	38.21	+3 + 7	36.31	34.30	-5 + 7	41.37	35.56	-6 - 3
25	26.77	45.64	+6 + 1	31.09	38.01	+1 + 9	36.48	34.26	-6 + 4	41.53	35.69	-4 - 6
26	26.89	45.34	+4 + 5	31.25	37.82	-2 + 10	36.66	34.23	-6 0	41.68	35.83	-2 - 8
27	27.02	45.04	+2 + 8	31.42	37.63	-4 + 9	36.84	34.20	-5 - 4	41.83	35.97	+1 - 8
28	27.14	44.74	0 + 10	31.59	37.44	-6 + 6	37.01	34.18	-3 - 7	41.98	36.12	+4 - 6
29	27.27	44.45	-3 + 10	31.75	37.26	-6 + 3	37.19	34.16	-1 - 8	42.12	36.27	+5 - 3
30	27.40	44.16	-5 + 9	31.92	37.08	-6 - 1	37.37	34.15	+2 - 7	42.26	36.42	+5 + 2
31	27.53	43.88	-6 + 6	32.09	36.91	-5 - 5	37.54	34.14	+4 - 5	42.40	36.58	+4 + 6
32				32.26	36.74	-3 - 7				42.54	36.75	+2 + 10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 37' 30"	6.865	+6.793	+81° 37' 40"	6.868	+6.795	+81° 37' 50"	6.870	+6.797
40	6.868	+6.795	50	6.870	+6.797	60	6.873	+6.799

$$\alpha_{1931.0} = 9^h 27^m 23^s.94$$

$$\delta_{1931.0} = +81^\circ 38' 1''.34$$

Nf) 30 Hev. Camelopardalis 5^m.34

Tag	Januar			Februar			März			April		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	IO ^h 22 ^m	+ 82° 54'	α. α. in 0.01 0.01	IO ^h 23 ^m	+ 82° 54'	α. α. in 0.01 0.01	IO ^h 23 ^m	+ 82° 54'	α. α. in 0.01 0.01	IO ^h 23 ^m	+ 82° 54'	α. α. in 0.01 0.01
1	59.04	27.93	-6 + 9	3.60	33.70	-4 - 7	5.19	42.09	+1 - 8	3.73	50.95	+6 + 4
2	59.22	28.04	-7 + 5	3.70	33.96	0 - 9	5.19	42.40	+4 - 7	3.64	51.19	+4 + 7
3	59.40	28.15	-7 0	3.80	34.22	+3 - 9	5.19	42.70	+6 - 4	3.54	51.43	+1 + 9
4	59.58	28.27	-5 - 5	3.90	34.48	+6 - 7	5.19	43.01	+7 + 1	3.44	51.67	-2 + 8
5	59.75	28.39	-2 - 8	3.99	34.75	+7 - 3	5.18	43.31	+6 + 5	3.34	51.90	-4 + 5
6	59.92	28.52	+1 -10	4.08	35.02	+7 + 2	5.17	43.61	+3 + 7	3.23	52.13	-5 0
7	60.09	28.66	+4 - 9	4.17	35.29	+5 + 5	5.15	43.92	0 + 8	3.12	52.36	-5 - 4
8	60.26	28.80	+7 - 5	4.25	35.56	+2 + 7	5.13	44.22	-2 + 6	3.01	52.58	-3 - 8
9	60.43	28.95	+7 - 1	4.33	35.84	-1 + 7	5.11	44.52	-4 + 3	2.90	52.80	-1 -11
10	60.60	29.10	+6 + 3	4.40	36.12	-3 + 5	5.09	44.83	-5 - 2	2.79	53.01	+1 -12
11	60.76	29.26	+4 + 6	4.47	36.40	-5 + 1	5.06	45.13	-5 - 6	2.68	53.22	+3 -11
12	60.92	29.42	+1 + 8	4.54	36.69	-5 - 3	5.03	45.43	-3 - 9	2.56	53.42	+5 - 8
13	61.08	29.59	-2 + 7	4.61	36.98	-4 - 7	5.00	45.73	-1 -11	2.44	53.62	+6 - 4
14	61.24	29.77	-4 + 4	4.67	37.27	-2 -10	4.96	46.02	+2 -11	2.32	53.81	+6 0
15	61.39	29.95	-5 0	4.73	37.56	0 -11	4.92	46.32	+4 -10	2.19	54.00	+5 + 4
16	61.54	30.13	-5 - 4	4.79	37.85	+3 -10	4.87	46.61	+5 - 7	2.07	54.19	+3 + 8
17	61.69	30.32	-4 - 8	4.84	38.14	+5 - 8	4.82	46.90	+6 - 2	1.94	54.37	0 +10
18	61.84	30.52	-2 -10	4.89	38.44	+6 - 5	4.77	47.19	+5 + 2	1.81	54.55	-2 +11
19	61.98	30.72	+1 -10	4.93	38.74	+6 0	4.71	47.47	+4 + 6	1.68	54.72	-5 +10
20	62.12	30.92	+3 - 9	4.97	39.04	+5 + 4	4.65	47.76	+2 + 9	1.55	54.89	-7 + 7
21	62.26	31.13	+5 - 7	5.01	39.34	+3 + 8	4.59	48.04	-1 +11	1.41	55.05	-7 + 3
22	62.39	31.34	+6 - 3	5.04	39.65	+1 +11	4.53	48.32	-4 +11	1.28	55.21	-6 - 2
23	62.52	31.56	+6 + 1	5.07	39.95	-2 +12	4.46	48.60	-6 + 9	1.14	55.36	-4 - 6
24	62.65	31.78	+4 + 6	5.10	40.26	-5 +11	4.39	48.87	-7 + 6	1.00	55.50	-1 - 8
25	62.78	32.01	+2 + 9	5.12	40.56	-7 + 9	4.32	49.14	-7 + 1	0.86	55.64	+2 - 8
26	62.91	32.24	0 +12	{5.14 5.16	40.87 41.17	-8 + 5 -7 0	4.24	49.40	-6 - 3	0.72	55.78	+5 - 6
27	63.03	32.47	-3 +12	5.17	41.48	-5 - 4	4.16	49.67	-3 - 6	0.58	55.91	+6 - 2
28	63.15	32.71	-6 +10	5.18	41.78	-2 - 7	4.08	49.93	0 - 8	0.44	56.03	+6 + 3
29	63.27	32.95	-7 + 7	5.19	42.09	+1 - 8	4.00	50.19	+3 - 7	0.29	56.15	+5 + 7
30	63.38	33.20	-7 + 2				3.91	50.45	+5 - 4	0.15	56.27	+2 + 9
31	63.49	33.45	-6 - 3				3.82	50.70	+6 0	0.00	56.38	-1 + 9
32	63.60	33.70	-4 - 7				3.73	50.95	+6 + 4			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 54' 20"	8.097	+8.035	+82° 54' 30"	8.100	+8.038	+82° 54' 50"	8.106	+8.044
30	8.100	+8.038	40	8.103	+8.041	60	8.109	+8.048

$$\alpha_{1931.0} = 10^h 22^m 49^s.82$$

$$\delta_{1931.0} = +82^\circ 54' 39''.83$$

N^y) 30 Hev. Camelopardalis 5^m.34

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder
	h m	° ' "	in	h m	° ' "	in	h m	° ' "	in	h m	° ' "	in
1	60.00	56.38	+1 + 9	55.31	56.94	-5 - 4	51.37	52.45	0 - 12	48.99	43.76	+6 - 2
2	59.85	56.48	-3 + 7	55.16	56.87	-3 - 8	51.26	52.22	+3 - 11	48.95	43.43	+5 + 2
3	59.71	56.58	-5 + 3	55.01	56.79	-1 - 11	51.16	51.99	+5 - 8	48.92	43.10	+4 + 6
4	59.56	56.67	-5 - 2	54.87	56.71	+1 - 11	51.05	51.76	+6 - 5	48.88	42.76	+2 + 9
5	59.41	56.76	-4 - 6	54.72	56.62	+4 - 10	50.95	51.52	+6 0	48.85	42.42	-1 + 11
6	59.26	56.84	-2 - 10	54.58	56.52	+5 - 7	50.85	51.28	+5 + 4	48.82	42.08	-4 + 11
7	59.11	56.92	0 - 12	54.43	56.42	+6 - 3	50.75	51.04	+3 + 8	48.79	41.74	-6 + 9
8	58.96	56.99	+3 - 11	54.29	56.31	+6 + 1	50.65	50.79	+1 + 10	48.77	41.40	-7 + 5
9	58.81	57.05	+5 - 9	54.15	56.20	+4 + 5	50.56	50.54	-2 + 11	48.75	41.06	-7 + 1
10	58.66	57.11	+6 - 6	54.01	56.08	+2 + 8	50.47	50.28	-5 + 10	48.73	40.71	-6 - 3
11	58.51	57.16	+6 - 2	53.87	55.96	0 + 10	50.38	50.02	-7 + 7	48.71	40.36	-3 - 6
12	58.36	57.21	+5 + 3	53.73	55.83	-3 + 11	50.29	49.76	-7 + 3	48.69	40.01	0 - 8
13	58.20	57.25	+4 + 7	53.60	55.70	-5 + 9	50.21	49.49	-7 - 1	48.68	39.66	+3 - 8
14	58.05	57.28	+1 + 10	53.46	55.56	-7 + 6	50.12	49.22	-5 - 5	48.67	39.30	+6 - 5
15	57.90	57.31	-1 + 11	53.33	55.42	-7 + 2	50.04	48.94	-2 - 8	48.66	38.95	+7 - 1
16	57.75	57.34	-4 + 10	53.19	55.27	-6 - 3	49.96	48.66	+2 - 9	48.66	38.59	+6 + 3
17	57.59	57.36	-6 + 8	53.06	55.11	-3 - 7	49.88	48.38	+4 - 7	48.66	38.23	+4 + 7
18	57.44	57.37	-7 + 4	52.93	54.95	0 - 9	49.80	48.09	+6 - 4	48.66	37.87	+1 + 8
19	57.28	57.37	-7 0	52.80	54.79	+3 - 9	49.73	47.80	+7 + 1	48.66	37.51	-2 + 8
20	57.13	57.37	-5 - 5	52.67	54.62	+5 - 6	49.66	47.51	+5 + 5	48.67	37.15	-4 + 5
21	56.98	57.37	-2 - 8	52.54	54.45	+7 - 2	49.59	47.21	+3 + 8	48.68	36.79	-5 + 1
22	56.83	57.36	+1 - 9	52.42	54.27	+6 + 3	49.52	46.91	0 + 9	48.69	36.43	-5 - 4
23	56.67	57.34	+4 - 7	52.29	54.09	+4 + 7	49.46	46.61	-3 + 7	48.70	36.06	-4 - 8
24	56.52	57.32	+6 - 4	52.17	53.90	+2 + 9	49.40	46.30	-5 + 4	48.72	35.70	-1 - 11
25	56.37	57.29	+6 + 1	52.05	53.71	-1 + 9	49.34	45.99	-5 - 1	48.74	35.34	+1 - 12
26	56.21	57.26	+5 + 5	51.93	53.51	-4 + 7	49.28	45.68	-5 - 5	48.76	34.97	+4 - 10
27	56.06	57.22	+3 + 8	51.82	53.31	-6 + 3	49.23	45.37	-3 - 9	48.78	34.60	+5 - 8
28	55.91	57.18	0 + 10	51.70	53.10	-6 - 2	49.18	45.05	0 - 11	48.81	34.23	+6 - 4
29	55.76	57.13	-3 + 8	51.59	52.89	-4 - 7	49.13	44.73	+2 - 11	48.84	33.86	+6 + 1
30	55.61	57.07	-5 + 5	51.48	52.67	-2 - 10	49.08	44.41	+4 - 9	48.87	33.49	+5 + 5
31	55.46	57.01	-6 0	51.37	52.45	0 - 12	49.03	44.09	+6 - 6	48.90	33.12	+3 + 8
32	55.31	56.94	-5 - 4				48.99	43.76	+6 - 2	48.94	32.75	0 + 10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 54' 30"	8.100	+8.038	+82° 54' 40"	8.103	+8.041	+82° 54' 50"	8.106	+8.044
	8.103	+8.041		8.106	+8.044		8.109	+8.048

$$\alpha_{1931.0} = 10^h 22^m 49^s.82$$

$$\delta_{1931.0} = +82^\circ 54' 39''.83$$

*) Tag der doppelten unteren Kulmination: August 28

Nf) 30 Hev. Camelopardalis 5^m.34

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	h ^m	°	′	h ^m	°	′	h ^m	°	′	h ^m	°	′
	10 22	82° 54′	0.01 | 0.01	10 22	82° 54′	0.01 | 0.01	10 22	82° 54′	0.01 | 0.01	10 23	82° 54′	0.01 | 0.01
	+	in		+	in		+	in		+	in	
1	48.94	32.75	0 + 10	51.19	21.91	-6 + 8	55.67	12.67	-4 - 6	1.42	7.62	+4 - 6
2	48.98	32.38	-3 + 11	51.31	21.57	-7 + 4	55.84	12.43	-1 - 7	1.62	7.53	+6 - 2
3	49.02	32.01	-5 + 10	51.42	21.23	-7 0	56.02	12.19	+2 - 7	1.82	7.45	+6 + 2
4	49.06	31.64	-7 + 7	51.54	20.90	-5 - 4	56.20	11.96	+5 - 5	2.03	7.38	+5 + 7
5	49.11	31.27	-7 + 3	51.66	20.56	-3 - 6	56.38	11.73	+6 0	2.23	7.32	+2 + 10
6	49.16	30.90	-6 - 1	51.78	20.23	0 - 7	56.56	11.51	+5 + 4	2.43	7.26	-1 + 10
7	49.21	30.53	-4 - 5	51.90	19.90	+3 - 6	56.74	11.29	+4 + 8	2.63	7.21	-3 + 9
8	49.26	30.16	-1 - 7	52.03	19.57	+5 - 3	56.93	11.08	+1 + 10	2.83	7.16	-5 + 5
9	49.32	29.79	+2 - 7	52.16	19.25	+6 + 1	57.11	10.87	-2 + 10	3.04	7.12	-6 0
10	49.38	29.43	+5 - 5	52.29	18.93	+5 + 5	57.30	10.67	-4 + 7	3.24	7.08	-5 - 5
11	49.44	29.06	+6 - 2	52.42	18.61	+3 + 8	57.49	10.47	-6 + 2	3.44	7.05	-3 - 9
12	49.50	28.69	+6 + 2	52.56	18.29	0 + 9	57.67	10.27	-5 - 3	3.64	7.03	0 - 12
13	49.57	28.32	+5 + 6	52.69	17.98	-3 + 8	57.86	10.08	-4 - 8	3.84	7.01	+3 - 12
14	49.64	27.96	+2 + 8	52.83	17.67	-5 + 4	58.05	9.90	-2 - 11	4.04	7.00	+5 - 10
15	49.71	27.59	-1 + 8	52.97	17.36	-5 0	58.24	9.72	+1 - 12	4.24	6.99	+6 - 7
16	49.78	27.23	-3 + 6	53.11	17.05	-5 - 5	58.44	9.55	+4 - 12	4.44	6.99	+7 - 2
17	49.86	26.86	-5 + 2	53.26	16.75	-3 - 10	58.64	9.38	+6 - 9	4.64	7.00	+6 + 2
18	49.94	26.50	-5 - 2	53.41	16.45	0 - 12	58.83	9.22	+7 - 5	4.84	7.01	+4 + 6
19	50.02	26.14	-4 - 7	53.56	16.16	+2 - 12	59.03	9.07	+6 - 1	5.04	7.03	+2 + 8
20	50.10	25.78	-2 - 11	53.71	15.87	+5 - 11	59.22	8.92	+5 + 4	5.23	7.06	-1 + 10
21	50.19	25.42	0 - 12	53.86	15.58	+6 - 8	59.42	8.77	+3 + 7	5.43	7.09	-4 + 9
22	50.28	25.06	+3 - 12	54.02	15.30	+7 - 3	59.62	8.63	+1 + 9	5.62	7.13	-6 + 7
23	50.37	24.70	+5 - 9	54.17	15.02	+6 + 1	59.82	8.50	-2 + 10	5.82	7.17	-7 + 4
24	50.46	24.35	+6 - 6	54.33	14.74	+4 + 5	60.01	8.37	-5 + 9	6.01	7.22	-7 0
25	50.56	24.00	+6 - 1	54.49	14.47	+2 + 8	60.21	8.24	-6 + 6	6.20	7.28	-5 - 4
26	50.66	23.64	+5 + 3	54.65	14.20	0 + 10	60.41	8.12	-7 + 3	6.39	7.34	-3 - 7
27	50.76	23.29	+4 + 7	54.82	13.93	-3 + 10	60.61	8.01	-6 - 1	6.58	7.41	0 - 8
28	50.86	22.94	+1 + 10	54.98	13.67	-5 + 8	60.81	7.90	-5 - 5	6.77	7.48	+3 - 8
29	50.97	22.59	-2 + 11	55.15	13.41	-7 + 5	61.01	7.80	-2 - 7	6.96	7.56	+5 - 5
30	51.08	22.25	-4 + 10	55.32	13.16	-7 + 1	61.21	7.71	+1 - 8	7.14	7.65	+6 0
31	51.19	21.91	-6 + 8	55.49	12.91	-6 - 3	61.42	7.62	+4 - 6	7.32	7.75	+6 + 4
32				55.67	12.67	-4 - 6				7.50	7.85	+4 + 8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 54′ 0″	8.091	+8.029	+82° 54′ 10″	8.094	+8.032	+82° 54′ 30″	8.100	+8.038
10	8.094	+8.032	20	8.097	+8.035	40	8.103	+8.041

$$\alpha_{1931.0} = 10^h 22^m 49^s.82$$

$$\delta_{1931.0} = +82^\circ 54' 39''.83$$

Ng) ϵ Ursae minoris $4^m.40$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder
	$16^h 52^m$	$+82^\circ 8'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$	$16^h 52^m$	$+82^\circ 8'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$	$16^h 52^m$	$+82^\circ 8'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$	$16^h 53^m$	$+82^\circ 8'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$
1	51.16	56.81	+3 + 8	54.09	47.79	-2 + 7	58.27	43.96	-3 + 5	3.04	45.64	0 - 11
2	51.22	56.47	+1 + 11	54.22	47.57	-3 + 2	58.43	43.92	-3 - 1	3.18	45.79	+2 - 11
3	51.28	56.13	0 + 11	54.35	47.36	-3 - 3	58.59	43.88	-2 - 6	3.32	45.95	+3 - 8
4	51.34	55.79	-2 + 9	54.48	47.15	-2 - 8	58.75	43.85	-1 - 10	3.45	46.12	+3 - 4
5	51.40	55.45	-3 + 5	54.62	46.95	0 - 11	58.91	43.83	+1 - 12	3.58	46.29	+2 + 2
6	51.47	55.12	-3 0	54.76	46.75	+1 - 11	59.07	43.81	+2 - 10	3.71	46.46	+1 + 6
7	51.54	54.79	-3 - 5	54.90	46.56	+2 - 9	59.23	43.80	+2 - 7	3.84	46.64	0 + 9
8	51.61	54.46	-1 - 10	55.04	46.38	+3 - 5	59.39	43.80	+3 - 2	3.97	46.83	-2 + 10
9	51.68	54.14	0 - 12	55.18	46.20	+2 0	59.55	43.80	+2 + 3	4.10	47.02	-3 + 8
10	51.75	53.82	+1 - 11	55.33	46.03	+1 + 5	59.71	43.81	+1 + 7	4.22	47.21	-4 + 5
11	51.83	53.50	+2 - 8	55.48	45.87	0 + 8	59.87	43.83	-1 + 10	4.34	47.41	-4 + 1
12	51.91	53.18	+3 - 3	55.62	45.71	-1 + 10	60.03	43.85	-2 + 10	4.46	47.62	-3 - 3
13	52.00	52.87	+2 + 2	55.77	45.56	-3 + 9	60.19	43.88	-3 + 7	4.58	47.83	-2 - 7
14	52.09	52.56	+1 + 7	55.92	45.41	-3 + 6	60.34	43.92	-4 + 4	4.69	48.05	-1 - 9
15	52.18	52.26	0 + 9	56.07	45.27	-4 + 2	60.50	43.96	-4 0	4.81	48.27	0 - 10
16	52.27	51.96	-2 + 10	56.22	45.13	-3 - 1	60.65	44.01	-3 - 4	4.92	48.49	+2 - 9
17	52.37	51.67	-3 + 8	56.38	45.00	-2 - 5	60.81	44.06	-2 - 7	5.03	48.72	+3 - 7
18	52.47	51.38	-3 + 5	56.53	44.88	-1 - 8	60.96	44.12	0 - 9	5.14	48.95	+4 - 3
19	52.57	51.09	-4 + 1	56.68	44.76	0 - 10	61.12	44.19	+1 - 10	5.24	49.18	+4 + 2
20	52.67	50.81	-3 - 3	56.84	44.65	+2 - 9	61.27	44.27	+2 - 8	5.35	49.42	+3 + 6
21	52.78	50.53	-2 - 6	57.00	44.55	+3 - 7	61.43	44.35	+3 - 5	5.45	49.66	+2 + 9
22	52.89	50.26	0 - 9	57.16	44.45	+4 - 4	61.58	44.44	+4 - 1	5.55	49.91	+1 + 11
23	53.00	49.99	+1 - 10	57.31	44.36	+4 + 1	61.73	44.53	+4 + 3	5.65	50.16	-1 + 11
24	53.11	49.72	+2 - 9	57.47	44.28	+4 + 5	61.88	44.63	+3 + 8	5.74	50.41	-2 + 8
25	53.23	49.46	+3 - 6	57.63	44.20	+3 + 9	62.03	44.74	+2 + 11	5.83	50.67	-3 + 4
26	53.35	49.21	+4 - 2	57.79	44.13	+1 + 11	62.18	44.85	0 + 12	5.92	50.93	-2 - 2
27	53.47	48.96	+4 + 2	57.95	44.07	0 + 11	62.32	44.97	-1 + 10	6.01	51.20	-2 - 7
28	53.59	48.71	+3 + 7	58.11	44.01	-2 + 9	62.47	45.09	-2 + 7	6.10	51.47	0 - 10
29	53.71	48.47	+2 + 10	58.27	43.96	-3 + 5	62.61	45.22	-3 + 1	6.18	51.74	+1 - 11
30	53.83	48.24	0 + 12				62.76	45.35	-2 - 4	6.26	52.01	+2 - 9
31	53.96	48.01	-1 + 11				62.90	45.49	-1 - 9	6.33	52.29	+3 - 5
32	54.09	47.79	-2 + 7				63.04	45.64	0 - 11			

δ	sec δ	tg δ	δ	sec δ	tg δ
$+82^\circ 8' 40''$	7.317	+7.248	$+82^\circ 8' 50''$	7.319	+7.250
50	7.319	+7.250	60	7.322	+7.253

$$\alpha_{1931.0} = 16^h 52^m 58^s.35$$

$$\delta_{1931.0} = +82^\circ 9' 13''.02$$

Ng) ε Ursae minoris 4^m.40

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	16 ^h 53 ^m	+ 82° 8'	0.01 | 0.01	16 ^h 53 ^m	+ 82° 9'	0.01 | 0.01	16 ^h 53 ^m	+ 82° 9'	0.01 | 0.01	16 ^h 52 ^m	+ 82° 9'	0.01 | 0.01
		⁺	ⁱⁿ		⁺	ⁱⁿ		⁺	ⁱⁿ		⁺	ⁱⁿ
1	6.33	52.29	+3 — 5	7.38	1.80	0 + 10	5.80	11.08	—4 + 2	61.97	17.65	0 — 10
2	6.40	52.57	+3 0	7.37	2.11	—2 + 10	5.71	11.34	—3 — 2	61.82	17.80	+1 — 10
3	6.47	52.85	+2 + 4	7.36	2.43	—3 + 8	5.62	11.60	—2 — 6	61.66	17.94	+2 — 8
4	6.54	53.13	0 + 8	7.34	2.75	—4 + 5	5.52	11.86	—1 — 9	61.51	18.08	+3 — 5
5	6.61	53.42	—1 + 10	7.32 (7.30	3.06 3.38	—4 — 9 —3 — 4	5.42	12.12	0 — 10	61.36	18.21	+4 — 1
6	6.68	53.71	—3 + 9	7.28	3.70	—2 — 7	5.32	12.37	+2 — 9	61.20	18.34	+4 + 4
7	6.74	54.00	—4 + 7	7.25	4.01	—1 — 9	5.22	12.62	+3 — 7	61.04	18.47	+3 + 8
8	6.80	54.30	—4 + 3	7.22	4.33	+1 — 10	5.11	12.87	+4 — 4	60.88	18.59	+1 + 11
9	6.86	54.60	—4 — 1	7.19	4.64	+2 — 9	5.00	13.11	+4 + 1	60.72	18.71	0 + 12
10	6.91	54.90	—3 — 5	7.16	4.96	+3 — 6	4.89	13.35	+3 + 5	60.56	18.82	—1 + 10
11	6.96	55.20	—2 — 8	7.12	5.27	+4 — 2	4.78	13.58	+2 + 9	60.40	18.92	—2 + 6
12	7.01	55.51	0 — 10	7.08	5.57	+3 + 3	4.66	13.81	+1 + 11	60.23	19.02	—3 + 1
13	7.05	55.81	+1 — 10	7.03	5.88	+3 + 7	4.54	14.04	—1 + 11	60.07	19.12	—2 — 4
14	7.09	56.12	+3 — 8	6.98	6.19	+1 + 10	4.42	14.27	—2 + 9	59.90	19.21	—1 — 9
15	7.13	56.43	+3 — 5	6.93	6.49	0 + 11	4.30	14.49	—3 + 4	59.74	19.29	0 — 11
16	7.17	56.74	+4 0	6.88	6.79	—1 + 10	4.18	14.71	—3 — 1	59.57	19.37	+1 — 11
17	7.20	57.05	+3 + 4	6.83	7.10	—3 + 7	4.06	14.92	—2 — 6	59.40	19.45	+2 — 8
18	7.23	57.36	+2 + 8	6.77	7.40	—3 + 2	3.93	15.13	—1 — 10	59.23	19.52	+3 — 4
19	7.26	57.67	+1 + 11	6.71	7.69	—3 — 3	3.80	15.34	+1 — 11	59.06	19.59	+2 + 1
20	7.29	57.99	0 + 11	6.65	7.99	—2 — 8	3.67	15.54	+2 — 10	58.89	19.65	+1 + 6
21	7.31	58.30	—2 + 10	6.59	8.28	0 — 11	3.54	15.74	+3 — 6	58.72	19.71	0 + 9
22	7.33	58.62	—3 + 6	6.52	8.56	+1 — 11	3.41	15.94	+3 — 2	58.54	19.76	—2 + 10
23	7.35	58.93	—3 0	6.45	8.85	+3 — 9	3.27	16.13	+2 + 4	58.37	19.81	—3 + 9
24	7.36	59.25	—2 — 5	6.38	9.14	+3 — 5	3.13	16.32	+1 + 8	58.19	19.85	—4 + 5
25	7.37	59.57	—1 — 9	6.30	9.42	+3 + 1	2.99	16.50	—1 + 10	58.02	19.89	—4 + 1
26	7.38	59.89	+1 — 10	6.22	9.70	+2 + 5	2.85	16.68	—2 + 10	57.84	19.92	—3 — 3
27	7.39	60.20	+2 — 10	6.14	9.99	0 + 9	2.71	16.85	—3 + 8	57.66	19.95	—2 — 7
28	7.40	60.52	+3 — 7	6.06	10.27	—1 + 10	2.57	17.02	—4 + 4	57.48	19.97	—1 — 9
29	7.40	60.84	+3 — 2	5.97	10.54	—3 + 9	2.42	17.18	—4 — 1	57.30	19.99	+1 — 10
30	7.40	61.16	+2 + 3	5.89	10.81	—3 + 6	2.27	17.34	—3 — 5	57.12	20.00	+2 — 9
31	7.39	61.48	+1 + 7	5.80	11.08	—4 + 2	2.12	17.50	—2 — 8	56.94	20.01	+3 — 6
32	7.38	61.80	0 + 10				1.97	17.65	0 — 10	56.76	20.01	+4 — 3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8' 50"	7.319	+7.250	+82° 9' 0"	7.322	+7.253	+82° 9' 10"	7.324	+7.256
60	7.322	+7.253	10	7.324	+7.256	20	7.327	+7.258

$$\alpha_{1931.0} = 16^h 52^m 58^s.35$$

$$\delta_{1931.0} = +82^\circ 9' 13''.02$$

Ng) ϵ Ursae minoris $4^m.40$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	$16^h 52^m$	$+82^\circ 9'$	α Glieder	$16^h 52^m$	$+82^\circ 9'$	α Glieder	$16^h 52^m$	$+82^\circ 9'$	α Glieder	$16^h 52^m$	$+82^\circ 8'$	α Glieder
I	56.76	20.01	+4 — 3	51.42	17.72	+2 + 9	46.77	10.89	—2 + 7	44.21	61.10	—2 — 6
2	56.58	20.00	+4 + 2	51.25	17.57	+1 + 11	46.65	10.60	—2 + 3	44.17	60.74	0 — 9
3	56.40	19.99	+3 + 6	51.08	17.41	0 + 12	46.53	10.31	—2 — 3	44.13	60.38	+1 — 11
4	56.22	19.98	+2 + 10	50.91	17.25	—1 + 10	46.41	10.02	—1 — 7	44.09	60.02	+2 — 10
5	56.04	19.96	+1 + 12	50.74	17.08	—2 + 6	46.29	9.73	0 — 10	44.06	59.66	+3 — 6
6	55.86	19.94	—1 + 11	50.58	16.91	—2 0	46.18	9.43	+2 — 10	44.03	59.30	+3 — 1
7	55.68	19.91	—2 + 8	50.41	16.73	—2 — 5	46.07	9.13	+3 — 8	44.01	58.94	+3 + 4
8	55.50	19.88	—3 + 4	50.24	16.55	—1 — 9	45.96	8.82	+3 — 4	43.99	58.57	+1 + 8
9	55.32	19.84	—2 — 2	50.08	16.36	+1 — 11	45.85	8.51	+3 + 1	43.97	58.21	0 + 10
10	55.14	19.80	—2 — 7	49.92	16.17	+2 — 10	45.75	8.20	+2 + 6	43.95	57.85	—2 + 10
11	54.96	19.75	0 — 10	49.76	15.97	+3 — 7	45.65	7.89	0 + 9	43.93	57.48	—3 + 8
12	54.78	19.69	+1 — 11	49.61	15.77	+3 — 2	45.55	7.57	—1 + 10	43.92	57.12	—4 + 3
13	54.60	19.63	+2 — 9	49.45	15.57	+2 + 3	45.46	7.25	—3 + 9	43.91	56.76	—4 — 1
14	54.42	19.57	+3 — 5	49.29	15.36	+1 + 7	45.37	6.93	—4 + 6	43.90	56.39	—3 — 6
15	54.24	19.50	+3 — 1	49.14	15.15	0 + 10	45.28	6.61	—4 + 1	43.90	56.03	—2 — 9
16	54.06	19.43	+2 + 4	48.98	14.93	—2 + 10	45.19	6.28	—4 — 3	43.90	55.66	0 — 10
17	53.88	19.35	0 + 8	48.83	14.71	—3 + 8	45.10	5.95	—3 — 7	43.90	55.29	+1 — 10
18	53.70	19.27	—1 + 10	48.68	14.48	—4 + 4	45.02	5.61	—1 — 10	43.91	54.93	+2 — 8
19	53.52	19.18	—3 + 9	48.53	14.25	—4 0	44.94	5.28	0 — 11	43.92	54.57	+3 — 5
20	53.35	19.08	—4 + 7	48.38	14.01	—3 — 5	44.87	4.94	+2 — 10	43.94	54.21	+3 — 1
21	53.17	18.98	—4 + 2	48.24	13.77	—2 — 8	44.80	4.60	+3 — 7	43.96	53.85	+3 + 4
22	52.99	18.88	—4 — 2	48.10	13.53	—1 — 10	44.73	4.26	+3 — 3	43.98	53.49	+2 + 8
23	52.81	18.77	—3 — 6	47.96	13.28	+1 — 10	44.66	3.91	+3 + 1	44.00	53.14	+1 + 10
24	52.64	18.65	—2 — 9	47.82	13.03	+2 — 9	44.59	3.57	+3 + 5	44.02	52.78	0 + 11
25	52.46	18.53	0 — 10	47.68	12.78	+3 — 6	44.53	3.22	+2 + 9	44.05	52.42	—2 + 10
26	52.29	18.41	+1 — 10	47.54	12.52	+3 — 2	44.47	2.87	0 + 11	44.08	52.07	—2 + 6
27	52.11	18.28	+2 — 7	47.41	12.26	+3 + 3	44.41	2.52	—1 + 11	44.12	51.72	—3 + 1
28	51.94	18.15	+3 — 4	47.28	11.99	+2 + 7	44.36	2.16	—2 + 9	44.16	51.37	—2 — 4
29	51.76	18.01	+4 0	47.15	11.72	+2 + 10	44.31	1.81	—3 + 4	44.20	51.02	—1 — 8
30	51.59	17.87	+3 + 5	47.02	11.45	0 + 11	44.26	1.46	—2 — 1	44.24	50.68	0 — 11
31	51.42	17.72	+2 + 9	46.90	11.17	—1 + 10	44.21	1.10	—2 — 6	44.29	50.34	+2 — 10
32				46.77	10.89	—2 + 7				44.34	49.99	+3 — 8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$+82^\circ 8' 40''$	7.317	+7.248	$+82^\circ 8' 50''$	7.319	+7.250	$+82^\circ 9' 10''$	7.324	+7.256
	50	7.319	60	7.322	+7.253	20	7.327	+7.258

$$\alpha_{1931.0} = 16^h 52^m 58^s.35$$

$$\delta_{1931.0} = +82^\circ 9' 13''.02$$

*) Tag der doppelten unteren Kulmination: Dez. 5

Nh) δ Ursae minoris 4^m.44

Tag	Januar			Februar			März			April		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	^h ₁₇ ^m ₅₄	⁺ 86° 36'	^o _{0.01} ^o _{0.01} in	^h ₁₇ ^m ₅₄	⁺ 86° 36'	^o _{0.01} ^o _{0.01} in	^h ₁₇ ^m ₅₄	⁺ 86° 36'	^o _{0.01} ^o _{0.01} in	^h ₁₇ ^m ₅₄	⁺ 86° 36'	^o _{0.01} ^o _{0.01} in
1	8.00	36.32	+11 + 6	11.56	26.48	- 4 + 9	19.49	20.81	- 6 + 6	30.37	20.02	- 3 -10
2	8.00	35.97	+ 7 + 9	11.78	26.21	- 8 + 4	19.83	20.69	- 8 + 1	30.71	20.10	+ 1 -11
3	8.01	35.63	+ 3 +11	12.00	25.94	- 9 - 1	20.17	20.58	- 8 - 4	31.05	20.18	+ 4 - 9
4	8.03	35.29	- 2 +10	12.23	25.68	- 8 - 6	20.51	20.47	- 6 - 9	31.39	20.27	+ 7 - 5
5	8.06	34.94	- 7 + 7	12.47	25.42	- 5 -10	20.85	20.37	- 2 -11	31.72	20.36	+ 7 0
6	8.10	34.60	- 9 + 2	12.71	25.17	- 1 -11	21.19	20.28	+ 1 -11	32.05	20.46	+ 6 + 5
7	8.15	34.26	-10 - 3	12.95	24.92	+ 2 -10	21.54	20.19	+ 5 - 8	32.38	20.56	+ 2 + 9
8	8.20	33.92	- 7 - 8	13.20	24.68	+ 5 - 6	21.89	20.10	+ 7 - 3	32.71	20.67	- 2 +10
9	8.26	33.58	- 4 -11	13.46	24.44	+ 7 - 1	22.24	20.02	+ 6 + 2	33.04	20.79	- 6 +10
10	8.33	33.24	0 -11	13.72	24.21	+ 6 + 4	22.59	19.95	+ 4 + 6	33.37	20.91	- 9 + 8
11	8.41	32.91	+ 4 - 9	13.99	23.98	+ 3 + 8	22.94	19.89	+ 1 +10	33.69	21.04	-10 + 4
12	8.49	32.58	+ 7 - 4	14.26	23.76	0 +10	23.30	19.83	- 3 +11	34.01	21.18	-11 0
13	8.58	32.25	+ 7 + 1	14.54	23.54	- 4 +10	23.65	19.78	- 7 +10	34.32	21.32	- 9 - 4
14	8.68	31.92	+ 5 + 5	14.82	23.33	- 7 + 8	24.01	19.73	- 9 + 7	34.63	21.46	- 6 - 8
15	8.78	31.60	+ 2 + 9	15.10	23.12	- 9 + 5	24.36	19.69	-10 + 3	34.94	21.61	- 2 -10
16	8.89	31.27	- 1 +10	15.39	22.92	-10 + 1	24.72	19.66	-10 - 2	35.25	21.77	+ 2 -10
17	9.01	30.95	- 5 +10	15.68	22.72	- 9 - 3	25.08	19.64	- 8 - 5	35.55	21.93	+ 6 - 9
18	9.13	30.63	- 8 + 7	15.98	22.53	- 6 - 7	25.43	19.62	- 5 - 8	35.85	22.09	+ 9 - 6
19	9.26	30.31	- 9 + 4	16.28	22.35	- 3 - 9	25.79	19.61	0 -10	36.14	22.26	+11 - 1
20	9.40	29.99	- 9 - 1	16.59	22.17	+ 1 -10	26.15	19.60	+ 4 -10	36.43	22.44	+11 + 3
21	9.54	29.68	- 8 - 5	16.90	22.00	+ 6 - 9	26.50	19.60	+ 8 - 8	36.72	22.62	+ 9 + 7
22	9.69	29.37	- 5 - 8	17.21	21.83	+ 9 - 6	26.86	19.61	+11 - 4	37.00	22.81	+ 6 +10
23	9.85	29.07	- 1 -10	17.53	21.67	+11 - 2	27.22	19.62	+12 0	37.28	23.00	+ 1 +11
24	10.02	28.77	+ 3 -10	17.85	21.51	+12 + 2	27.57	19.64	+11 + 5	37.55	23.20	- 3 + 9
25	10.19	28.47	+ 7 - 8	18.17	21.36	+11 + 7	27.92	19.67	+ 8 + 9	37.82	23.40	- 6 + 5
26	10.37	28.17	+11 - 5	18.50	21.21	+ 7 +10	28.28	19.70	+ 4 +11	38.08	23.60	- 8 0
27	10.55	27.88	+12 - 1	18.83	21.07	+ 3 +11	28.63	19.74	0 +11	38.34	23.81	- 7 - 5
28	10.74	27.59	+12 + 4	19.16	20.94	- 2 +10	28.98	19.78	- 4 + 8	38.59	24.02	- 5 - 9
29	10.93	27.31	+ 9 + 8	19.49	20.81	- 6 + 6	29.33	19.83	- 7 + 3	38.84	24.24	- 1 -11
30	11.13	27.03	+ 5 +11				29.68	19.89	- 8 - 2	39.09	24.46	+ 3 -10
31	11.34	26.75	0 +11				30.02	19.95	- 6 - 7	39.33	24.69	+ 7 - 7
32	11.56	26.48	- 4 + 9				30.37	20.02	- 3 -10			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36' 10"	16.875	+16.846	+86° 36' 20"	16.889	+16.860	+86° 36' 30"	16.903	+16.873
20	16.889	+16.860	30	16.903	+16.873	40	16.917	+16.887

$$\alpha_{1931.0} = 17^h 54^m 28^s.40$$

$$\delta_{1931.0} = +86^\circ 36' 48''.22$$

Nh) δ Ursae minoris 4^m.44

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder
	^h ^m	[°] [']	[°] ['] ⁱⁿ	^h ^m	[°] [']	[°] ['] ⁱⁿ	^h ^m	[°] [']	[°] ['] ⁱⁿ	^h ^m	[°] [']	[°] ['] ⁱⁿ
	17 54	86° 36'	0.01|0.01	17 54	86° 36'	0.01|0.01	17 54	86° 36'	0.01|0.01	17 54	86° 36'	0.01|0.01
I	39.33	24.69	+ 7 - 7	43.99	33.31	+ 3 + 9	42.63	43.09	- 10 + 5	35.52	51.46	- 4 - 9
2	39.56	24.92	+ 8 - 2	44.04	33.62	- 2 + 11	42.48	43.39	- 10 0	35.21	51.68	0 - 10
3	39.79	25.16	+ 7 + 3	44.09	33.93	- 6 + 10	42.33	43.69	- 9 - 4	34.90	51.90	+ 4 - 9
4	40.02	25.40	+ 4 + 7	44.13	34.25	- 9 + 7	42.17	43.99	- 6 - 7	34.58	52.12	+ 8 - 7
5	40.24	25.64	0 + 10	44.16	34.56	- 10 + 3	42.01	44.29	- 3 - 10	34.26	52.33	+ 10 - 4
6	40.45	25.89	- 4 + 11	44.19	34.88	- 10 - 1	41.84	44.59	+ 1 - 10	33.93	52.54	+ 11 + 1
7	40.66	26.14	- 8 + 9	44.21	35.19	- 8 - 5	41.67	44.89	+ 5 - 9	33.60	52.75	+ 11 + 5
8	40.86	26.39	- 10 + 6	44.22	35.51	- 5 - 8	41.49	45.18	+ 9 - 6	33.26	52.95	+ 8 + 9
9	41.06	26.65	- 11 + 1	44.23	35.83	- 1 - 10	41.30	45.47	+ 11 - 2	32.92	53.15	+ 4 + 11
10	41.25	26.91	- 10 - 3	44.23	36.15	+ 3 - 10	41.11	45.76	+ 11 + 3	32.58	53.35	0 + 10
11	41.44	27.17	- 7 - 7	44.23	36.47	+ 7 - 8	40.91	46.05	+ 9 + 7	32.23	53.54	- 4 + 8
12	41.62	27.44	- 4 - 9	44.22	36.79	+ 9 - 5	40.71	46.34	+ 6 + 10	31.88	53.72	- 7 + 3
13	41.80	27.71	0 - 10	44.20	37.11	+ 11 0	40.50	46.62	+ 2 + 11	31.52	53.90	- 8 - 2
14	41.97	27.98	+ 4 - 9	44.17	37.43	+ 10 + 4	40.29	46.90	- 3 + 10	31.16	54.08	- 7 - 7
15	42.13	28.26	+ 8 - 7	44.14	37.75	+ 8 + 8	40.07	47.18	- 7 + 6	30.80	54.26	- 4 - 10
16	42.29	28.54	+ 10 - 3	44.10	38.07	+ 4 + 11	39.84	47.45	- 9 + 1	30.43	54.43	0 - 11
17	42.44	28.82	+ 11 + 1	44.06	38.39	0 + 11	39.61	47.72	- 8 - 4	30.06	54.59	+ 4 - 9
18	42.59	29.10	+ 10 + 6	44.01	38.70	- 5 + 9	39.37	47.99	- 6 - 9	29.69	54.75	+ 7 - 5
19	42.73	29.39	+ 7 + 9	43.95	39.02	- 8 + 4	39.13	48.26	- 2 - 11	29.31	54.91	+ 7 0
20	42.86	29.68	+ 3 + 11	43.88	39.34	- 9 - 1	38.88	48.52	+ 2 - 11	28.93	55.06	+ 6 + 5
21	42.99	29.97	- 2 + 10	$\begin{Bmatrix} 43.81 \\ 43.73 \end{Bmatrix}$	$\begin{Bmatrix} 39.66 \\ 39.97 \end{Bmatrix}$	$\begin{Bmatrix} - 8 - 6 \\ - 5 - 10 \end{Bmatrix}$	38.63	48.78	+ 6 - 8	28.55	55.21	+ 3 + 9
22	43.11	30.26	- 6 + 7	43.65	40.29	- 1 - 11	38.37	49.04	+ 8 - 3	28.17	55.35	- 1 + 11
23	43.22	30.56	- 8 + 2	43.56	40.61	+ 4 - 10	38.11	49.30	+ 8 + 2	27.78	55.49	- 6 + 10
24	43.33	30.86	- 8 - 3	43.46	40.92	+ 7 - 6	37.84	49.55	+ 5 + 7	27.39	55.62	- 9 + 8
25	43.43	31.16	- 6 - 8	43.36	41.23	+ 8 - 1	37.57	49.80	+ 2 + 10	27.00	55.75	- 11 + 4
26	43.53	31.46	- 2 - 11	43.25	41.54	+ 7 + 4	37.29	50.05	- 3 + 11	26.60	55.88	- 11 - 1
27	43.62	31.77	+ 2 - 11	43.14	41.85	+ 4 + 8	37.01	50.29	- 7 + 9	26.20	56.00	- 9 - 5
28	43.71	32.07	+ 6 - 9	43.02	42.16	0 + 10	36.72	50.53	- 9 + 6	25.80	56.12	- 6 - 8
29	43.79	32.38	+ 8 - 4	42.90	42.47	- 4 + 10	36.43	50.77	- 11 + 2	25.40	56.23	- 2 - 10
30	43.86	32.69	+ 8 + 1	42.77	42.78	- 8 + 8	36.13	51.00	- 10 - 2	24.99	56.34	+ 2 - 10
31	43.93	33.00	+ 6 + 6	42.63	43.09	- 10 + 5	35.83	51.23	- 8 - 6	24.58	56.44	+ 6 - 8
32	43.99	33.31	+ 3 + 9				35.52	51.46	- 4 - 9	24.17	56.54	+ 9 - 5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36' 20"	16.889	+16.860	+86° 36' 30"	16.903	+16.873	+86° 36' 50"	16.931	+16.901
30	16.903	+16.873	40	16.917	+16.887	60	16.945	+16.915

$$\alpha_{1931.0} = 17^h 54^m 28^s.40$$

$$\delta_{1931.0} = +86^\circ 36' 48''.22$$

Nk) δ Ursae minoris $4^m.44$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	$17^h 54^m$	$86^\circ 36'$	α Glieder	$17^h 53^m$	$86^\circ 36'$	α Glieder	$17^h 53^m$	$86^\circ 36'$	α Glieder	$17^h 53^m$	$86^\circ 36'$	α Glieder
		$+$	in		$+$	in		$+$	in		$+$	in
I	24.17	56.54	+9-5	71.27	57.30	+10+6	58.63	53.42	-3+8	49.74	45.71	-7-4
2	23.76	56.63	+11-1	70.84	57.25	+7+9	58.26	53.22	-6+4	49.53	45.40	-4-8
3	23.34	56.72	+11+4	70.41	57.19	+3+11	57.90	53.02	-7-1	49.33	45.09	-1-11
4	22.93	56.81	+9+8	69.98	57.13	-1+10	57.54	52.81	-6-6	49.13	44.78	+4-11
5	22.51	56.89	+6+10	69.55	57.06	-4+7	57.19	52.60	-3-10	48.94	44.46	+7-8
6	22.09	56.97	+2+11	69.12	56.99	-7+2	56.84	52.38	+1-11	48.75	44.14	+9-3
7	21.67	57.04	-2+9	68.69	56.91	-7-3	56.50	52.16	+5-10	48.57	43.82	+9+2
8	21.25	57.11	-6+5	68.26	56.83	-5-8	56.16	51.94	+8-6	48.40	43.50	+6+7
9	20.82	57.17	-7 0	67.83	56.74	-2-11	55.82	51.71	+9-1	48.24	43.17	+2+10
10	20.39	57.23	-7-5	67.41	56.65	+2-11	55.49	51.47	+8+4	48.08	42.85	-3+11
11	19.97	57.28	-5-9	66.98	56.56	+6-9	55.16	51.23	+4+8	47.93	42.52	-7+10
12	19.54	57.33	-1-11	66.56	56.46	+8-4	54.84	50.99	0+11	47.78	42.19	-10+6
13	19.11	57.37	+3-11	66.14	56.35	+8+1	54.52	50.75	-5+11	47.64	41.86	-12+2
14	18.68	57.41	+6-7	65.72	56.24	+6+6	54.21	50.50	-9+8	47.51	41.53	-11-3
15	18.25	57.44	+7-2	65.31	56.13	+2+9	53.90	50.24	-11+4	47.39	41.19	-8-7
16	17.82	57.47	+7+3	64.89	56.01	-3+11	53.60	49.98	-12 0	47.27	40.85	-5-9
17	17.38	57.49	+4+8	64.48	55.88	-7+10	53.30	49.72	-10-5	47.16	40.52	-1-10
18	16.95	57.51	0+10	64.07	55.75	-10+7	53.01	49.46	-7-8	47.06	40.18	+4-9
19	16.51	57.53	-4+11	63.66	55.62	-12+3	52.72	49.19	-3-10	46.96	39.84	+7-7
20	16.08	57.54	-8+9	63.26	55.48	-11-2	52.44	48.92	+1-10	46.87	39.50	+9-3
21	15.64	57.54	-10+5	62.86	55.33	-9-6	52.17	48.64	+5-8	46.79	39.15	+10+1
22	15.20	57.54	-11+1	62.46	55.18	-6-9	51.90	48.36	+8-5	46.72	38.81	+9+6
23	14.77	57.53	-10-3	62.06	55.03	-2-10	51.64	48.08	+10-1	46.66	38.47	+7+9
24	14.33	57.52	-8-7	61.66	54.87	+3-10	51.38	47.79	+10+3	46.60	38.12	+3+11
25	13.89	57.50	-4-9	61.27	54.70	+6-7	51.13	47.50	+8+7	46.55	37.78	-1+10
26	13.46	57.48	0-10	60.88	54.53	+9-4	50.88	47.21	+5+10	46.50	37.43	-5+8
27	13.02	57.45	+4-9	60.50	54.36	+10 0	50.64	46.92	+1+11	46.46	37.09	-7+3
28	12.58	57.42	+8-6	60.12	54.18	+10+5	50.41	46.62	-3+9	46.43	36.74	-8-2
29	12.15	57.39	+10-3	59.74	54.00	+8+8	50.18	46.32	-6+6	46.41	36.40	-6-7
30	11.71	57.35	+11+2	59.37	53.81	+4+11	49.96	46.02	-8+1	46.40	36.05	-3-10
31	11.27	57.30	+10+6	59.00	53.62	0+11	49.74	45.71	-7-4	46.39	35.71	+1-11
32				58.63	53.42	-3+8				46.39	35.37	+6-10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$+86^\circ 36' 30''$	16.903	$+16.873$	$+86^\circ 36' 40''$	16.917	$+16.887$	$+86^\circ 36' 50''$	16.931	$+16.901$
40	16.917	$+16.887$	50	16.931	$+16.901$	60	16.945	$+16.915$

$$\alpha_{1931.0} = 17^h 54^m 28.40$$

$$\delta_{1931.0} = +86^\circ 36' 48''.22$$

*) Tag der doppelten unteren Kulmination: Dez. 20

N) λ Ursae minoris $6^m.55$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	$18^h 44^m$	$89^\circ 1'$	$\begin{smallmatrix} + \\ \circ.\circ\mid \circ.\circ\mid \end{smallmatrix}$	$18^h 44^m$	$89^\circ 1'$	$\begin{smallmatrix} + \\ \circ.\circ\mid \circ.\circ\mid \end{smallmatrix}$	$18^h 44^m$	$89^\circ 1'$	$\begin{smallmatrix} + \\ \circ.\circ\mid \circ.\circ\mid \end{smallmatrix}$	$18^h 45^m$	$89^\circ 1'$	$\begin{smallmatrix} + \\ \circ.\circ\mid \circ.\circ\mid \end{smallmatrix}$
1	11.74	60.38	+45 + 3	14.85	50.30	-10 + 9	36.63	43.37	-18 + 7	12.47	40.55	-21 - 9
2	11.45	60.05	+36 + 7	15.35	50.00	-26 + 6	37.65	43.19	-30 + 3	13.68	40.56	-7 - 11
3	11.19	59.72	+19 + 10	15.87	49.71	-36 + 1	38.69	43.01	-35 - 2	14.90	40.57	+9 - 10
4	10.95	59.38	-1 + 11	16.42	49.41	-37 - 4	39.74	42.84	-31 - 7	16.11	40.59	+21 - 7
5	10.74	59.05	-20 + 8	16.99	49.12	-29 - 8	40.81	42.68	-19 - 10	17.31	40.62	+28 - 2
6	10.56	58.72	-34 + 4	17.58	48.83	-15 - 11	41.88	42.52	-3 - 11	18.52	40.65	+26 + 3
7	10.40	58.39	-40 - 1	18.19	48.55	+1 - 10	42.97	42.37	+12 - 9	19.72	40.69	+17 + 8
8	10.27	58.05	-36 - 6	18.83	48.27	+15 - 7	44.07	42.22	+23 - 5	20.92	40.73	+3 + 11
9	10.16	57.72	-25 - 10	19.48	47.99	+24 - 3	45.18	42.08	+26 0	22.11	40.78	-13 + 11
10	10.08	57.38	-8 - 11	20.16	47.72	+25 + 2	46.30	41.95	+21 + 5	23.30	40.84	-27 + 10
11	10.03	57.05	+8 - 9	20.86	47.45	+19 + 7	47.43	41.82	+11 + 9	24.49	40.90	-37 + 6
12	10.00	56.72	+21 - 6	21.58	47.19	+7 + 10	48.57	41.70	-3 + 11	25.67	40.97	-41 + 2
13	10.00	56.39	+27 - 1	22.32	46.93	-7 + 11	49.72	41.58	-18 + 11	26.84	41.04	-38 - 2
14	10.03	56.05	+25 + 4	23.08	46.67	-21 + 10	50.87	41.47	-30 + 9	28.01	41.12	-30 - 6
15	10.08	55.72	+17 + 8	23.86	46.42	-32 + 7	52.03	41.37	-38 + 5	29.16	41.21	-17 - 9
16	10.16	55.39	+4 + 11	24.66	46.17	-37 + 3	53.20	41.27	-39 + 1	30.31	41.30	-2 - 10
17	10.26	55.06	-11 + 11	25.48	45.93	-36 - 1	54.38	41.18	-34 - 4	31.45	41.40	+15 - 10
18	10.39	54.73	-24 + 9	26.31	45.69	-30 - 5	55.56	41.09	-24 - 7	32.58	41.50	+30 - 7
19	10.55	54.40	-33 + 6	27.17	45.45	-18 - 8	56.75	41.01	-10 - 10	33.70	41.61	+40 - 3
20	10.73	54.07	-36 + 1	28.04	45.22	-3 - 10	57.94	40.94	+6 - 10	34.81	41.72	+44 + 1
21	10.94	53.75	-33 - 3	28.93	45.00	+14 - 10	59.14	40.87	+23 - 9	35.92	41.84	+41 + 5
22	11.17	53.43	-25 - 7	29.84	44.78	+30 - 8	60.34	40.81	+37 - 6	37.01	41.96	+30 + 9
23	11.43	53.10	-11 - 9	30.76	44.56	+42 - 5	61.55	40.76	+45 - 2	38.10	42.09	+14 + 10
24	11.71	52.78	+5 - 10	31.70	44.35	+48 0	62.75	40.71	+46 + 2	39.17	42.23	-4 + 10
25	12.02	52.47	+21 - 10	32.65	44.14	+46 + 4	63.96	40.67	+40 + 6	40.24	42.37	-20 + 6
26	12.35	52.15	+36 - 7	33.63	43.94	+36 + 8	65.18	40.63	+27 + 10	41.29	42.52	-30 + 2
27	12.71	51.84	+46 - 3	34.61	43.74	+20 + 10	66.39	40.60	+9 + 10	42.33	42.67	-32 - 4
28	13.09	51.52	+48 + 1	35.61	43.55	0 + 10	67.61	40.58	-10 + 8	43.36	42.83	-25 - 8
29	13.50	51.21	+42 + 6	36.63	43.37	-18 + 7	68.82	40.57	-24 + 5	44.37	42.99	-11 - 11
30	13.93	50.91	+29 + 10				70.04	40.56	-32 0	45.38	43.16	+5 - 11
31	14.38	50.60	+10 + 11				71.25	40.55	-31 - 6	46.37	43.33	+20 - 8
32	14.85	50.30	-10 + 9				72.47	40.55	-21 - 9			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$+89^\circ 1' 40''$	58.936	+58.927	$+89^\circ 1' 50''$	59.104	+59.096	$+89^\circ 1' 60''$	59.274	+59.266
50	59.104	+59.096	60	59.274	+59.266	70	59.445	+59.437

$$\alpha_{1931.0} = 18^h 45^m 31^s.03$$

$$\delta_{1931.0} = +89^\circ 2' 8''.06$$

*) Tag der doppelten unteren Kulmination: Jan. 2

Ni) λ Ursae minoris $6^m.55$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	\odot Glieder	AR.	Dekl.	\odot Glieder	AR.	Dekl.	\odot Glieder	AR.	Dekl.	\odot Glieder
	$18^h 45^m$	$+89^\circ 1'$	$\odot.01 | \odot.01$	$18^h 46^m$	$+89^\circ 1'$	$\odot.01 | \odot.01$	$18^h 45^m$	$+89^\circ 2'$	$\odot.01 | \odot.01$	$18^h 45^m$	$+89^\circ 2'$	$\odot.01 | \odot.01$
1	46.37	43.33	+20 - 8	8.80	50.75	+18 + 9	71.87	0.14	-22 + 10	53.65	9.96	-24 - 8
2	47.34	43.51	+29 - 4	9.22	51.04	+ 3 + 11	71.63	0.47	-34 + 7	52.75	10.23	- 9 - 10
3	48.30	43.69	+30 + 1	9.61	51.34	-14 + 11	71.36	0.79	-40 + 3	51.84	10.51	+ 8 - 10
4	49.24	43.88	+23 + 6	9.99	51.63	-28 + 9	$\begin{smallmatrix} 71.08 \\ 70.77 \end{smallmatrix}$	$\begin{smallmatrix} 1.12 \\ 1.44 \end{smallmatrix}$	$\begin{smallmatrix} -38 - 2 \\ -31 - 6 \end{smallmatrix}$	50.91	10.78	+24 - 9
5	50.18	44.07	+10 + 10	10.35	51.93	-38 + 5	70.44	1.76	-18 - 9	49.96	11.04	+37 - 6
6	51.10	44.27	- 6 + 11	10.68	52.23	-40 + 1	70.09	2.08	- 3 - 10	48.99	11.31	+44 - 2
7	52.00	44.47	-21 + 10	11.00	52.53	-37 - 3	69.71	2.40	+14 - 10	48.00	11.58	+45 + 3
8	52.89	44.68	-34 + 8	11.29	52.84	-28 - 7	69.32	2.72	+29 - 8	47.00	11.84	+39 + 7
9	53.76	44.89	-40 + 4	11.55	53.14	-13 - 9	68.90	3.04	+40 - 4	45.98	12.10	+25 + 10
10	54.61	45.10	-40 - 1	11.80	53.45	+ 3 - 10	68.46	3.35	+45 0	44.94	12.36	+ 7 + 10
11	55.45	45.32	-34 - 5	12.02	53.76	+19 - 9	68.01	3.67	+42 + 5	43.89	12.61	-11 + 8
12	56.27	45.54	-23 - 8	12.23	54.07	+32 - 7	67.53	3.98	+32 + 8	42.82	12.86	-27 + 5
13	57.08	45.77	- 8 - 10	12.41	54.38	+41 - 3	67.02	4.30	+16 + 10	41.74	13.10	-34 0
14	57.86	46.00	+ 8 - 10	12.56	54.69	+43 + 2	66.50	4.61	- 3 + 10	40.64	13.34	-33 - 5
15	58.63	46.24	+24 - 8	12.70	55.01	+38 + 6	65.96	4.92	-20 + 7	39.53	13.58	-24 - 9
16	59.38	46.48	+36 - 5	12.81	55.32	+25 + 10	65.39	5.24	-32 + 3	38.40	13.81	- 9 - 11
17	60.11	46.72	+43 - 1	12.91	55.64	+ 8 + 10	64.81	5.55	-36 - 2	37.25	14.04	+ 7 - 10
18	60.83	46.97	+42 + 4	12.98	55.96	-11 + 9	64.20	5.85	-31 - 7	36.09	14.27	+21 - 7
19	61.52	47.22	+34 + 7	13.02	56.28	-26 + 6	63.58	6.16	-19 - 10	34.92	14.50	+28 - 2
20	62.20	47.47	+19 + 10	13.05	56.60	-34 + 1	62.93	6.46	- 2 - 11	33.73	14.72	+27 + 4
21	62.86	47.73	+ 1 + 10	13.05	56.92	-34 - 4	62.27	6.77	+15 - 9	32.53	14.94	+18 + 8
22	63.50	47.99	-16 + 8	13.04	57.24	-26 - 9	61.58	7.07	+26 - 5	31.31	15.16	+ 4 + 11
23	64.12	48.25	-29 + 4	13.00	57.57	-10 - 11	60.88	7.36	+31 0	30.08	15.37	-13 + 11
24	64.72	48.52	-34 - 1	12.93	57.89	+ 7 - 11	60.15	7.66	+26 + 5	28.84	15.58	-27 + 10
25	65.30	48.79	-30 - 6	12.85	58.21	+22 - 8	59.41	7.95	+15 + 9	27.58	15.78	-38 + 6
26	65.86	49.06	-18 - 10	12.74	58.53	+31 - 3	58.64	8.25	- 1 + 11	26.31	15.98	-41 + 2
27	66.40	49.34	- 1 - 11	12.61	58.85	+31 + 2	57.86	8.54	-17 + 11	25.02	16.18	-38 - 3
28	66.92	49.61	+15 - 10	12.46	59.18	+24 + 7	57.05	8.82	-30 + 8	23.72	16.37	-30 - 7
29	67.42	49.89	+27 - 6	12.29	59.50	+10 + 10	56.23	9.11	-38 + 4	22.41	16.56	-16 - 9
30	67.90	50.18	+32 - 1	12.09	59.82	- 7 + 11	55.39	9.39	-40 0	21.09	16.74	+ 1 - 10
31	68.36	50.46	+29 + 4	11.87	60.14	-22 + 10	54.53	9.68	-35 - 5	19.76	16.92	+17 - 9
32	68.80	50.75	+18 + 9				53.65	9.96	-24 - 8	18.42	17.10	+32 - 7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$+89^\circ 1' 40''$	58.936	+58.927	$+89^\circ 2' 0''$	59.274	+59.266	$+89^\circ 2' 10''$	59.445	+59.437
50	59.104	+59.096	10	59.445	+59.437	20	59.617	+59.608

$$\alpha_{1931.0} = 18^h 45^m 31^s.03$$

$$\delta_{1931.0} = +89^\circ 2' 8''.06$$

N) λ Ursae minoris $6^m.55$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl.	AR.	Dekl.	Gl.	AR.	Dekl.	Gl.	AR.	Dekl.	Gl.
	18 ^h 44 ^m	+ 89° 2'	0.01 0.01	18 ^h 43 ^m	+ 89° 2'	0.01 0.01	18 ^h 43 ^m	+ 89° 2'	0.01 0.01	18 ^h 42 ^m	+ 89° 2'	0.01 0.01
1	78.42	17.10	+32 - 7	94.25	20.34	+43 + 4	46.93	19.09	- 6 + 9	69.20	13.42	-30 - 3
2	77.06	17.27	+42 - 3	92.70	20.38	+36 + 8	45.49	18.97	-20 + 5	68.19	13.17	-25 - 7
3	75.69	17.44	+46 + 1	91.15	20.41	+22 + 10	44.06	18.85	-28 0	67.21	12.91	-12 - 11
4	74.32	17.60	+42 + 5	89.60	20.44	+ 6 + 10	42.63	18.72	-28 - 5	66.24	12.65	+ 5 - 11
5	72.93	17.76	+32 + 9	88.04	20.46	-11 + 8	41.22	18.58	-20 - 9	65.30	12.38	+21 - 10
6	71.54	17.92	+16 + 10	86.49	20.47	-24 + 4	39.82	18.44	- 5 - 11	64.37	12.11	+33 - 5
7	70.13	18.07	- 2 + 9	84.93	20.48	-29 - 2	38.43	18.30	+11 - 11	63.46	11.84	+36 0
8	68.71	18.22	-18 + 6	83.37	20.49	-26 - 7	37.05	18.15	+25 - 8	62.58	11.56	+30 + 5
9	67.29	18.36	-29 + 1	81.82	20.49	-16 - 10	35.68	17.99	+33 - 3	61.72	11.28	+17 + 10
10	65.86	18.50	-31 - 4	80.26	20.48	- 1 - 11	34.32	17.83	+33 + 2	60.88	11.00	- 1 + 11
11	64.42	18.63	-26 - 8	78.71	20.47	+15 - 10	32.98	17.66	+23 + 7	60.06	10.71	-19 + 11
12	62.97	18.76	-13 - 11	77.15	20.45	+26 - 6	31.65	17.49	+ 8 + 11	59.26	10.42	-34 + 8
13	61.51	18.88	+ 2 - 11	75.60	20.43	+31 - 1	30.33	17.31	-11 + 12	58.49	10.13	-43 + 4
14	60.05	19.00	+17 - 8	74.05	20.41	+27 + 5	29.02	17.13	-27 + 10	57.74	9.83	-44 - 1
15	58.57	19.12	+27 - 4	72.51	20.38	+15 + 9	27.73	16.95	-40 + 7	57.01	9.54	-38 - 5
16	57.09	19.23	+28 + 1	70.96	20.34	- 1 + 11	26.45	16.76	-45 + 2	56.30	9.24	-26 - 8
17	55.60	19.34	+21 + 6	69.42	20.30	-19 + 11	25.18	16.57	-43 - 2	55.62	8.94	-11 - 10
18	54.11	19.44	+ 8 + 10	67.88	20.26	-34 + 9	23.93	16.37	-35 - 6	54.96	8.63	+ 5 - 10
19	52.61	19.54	- 8 + 12	66.35	20.21	-43 + 5	22.70	16.17	-21 - 9	54.32	8.33	+21 - 8
20	51.11	19.63	-24 + 11	64.82	20.15	-45 0	21.48	15.96	- 5 - 10	53.71	8.02	+33 - 5
21	49.60	19.72	-37 + 8	63.29	20.09	-40 - 4	20.28	15.75	+11 - 9	53.12	7.71	+40 - 1
22	48.08	19.80	-43 + 3	61.77	20.02	-29 - 7	19.10	15.54	+26 - 7	52.56	7.40	+40 + 3
23	46.56	19.88	-42 - 1	60.26	19.95	-15 - 10	17.93	15.32	+36 - 3	52.02	7.08	+33 + 7
24	45.03	19.95	-35 - 5	58.75	19.88	+ 2 - 10	16.78	15.10	+41 + 1	51.51	6.76	+20 + 10
25	43.50	20.02	-23 - 8	57.25	19.80	+18 - 9	15.64	14.87	+38 + 5	51.02	6.44	+ 4 + 10
26	41.97	20.09	- 7 - 10	55.75	19.71	+31 - 6	14.52	14.64	+29 + 9	50.55	6.12	-13 + 9
27	40.43	20.15	+10 - 10	54.26	19.62	+40 - 2	13.42	14.40	+15 + 10	50.11	5.80	-26 + 5
28	38.89	20.20	+25 - 8	52.78	19.53	+42 + 2	12.34	14.16	- 2 + 10	49.70	5.48	-32 0
29	37.34	20.25	+37 - 5	51.30	19.43	+37 + 6	11.27	13.92	-17 + 7	49.31	5.15	-30 - 5
30	35.80	20.30	+43 0	49.84	19.32	+26 + 9	10.23	13.67	-27 + 3	48.95	4.83	-20 - 10
31	34.25	20.34	+43 + 4	48.38	19.21	+11 + 10	9.20	13.42	-30 - 3	48.61	4.50	- 4 - 11
32				46.93	19.09	- 6 + 9				48.28	4.17	+13 - 11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2' 0"	59.274	+59.266	+89° 2' 10"	59.445	+59.437	+89° 2' 20"	59.617	+59.608
10	59.445	+59.437	20	59.617	+59.608	30	59.790	+59.781

$$\alpha_{1931.0} = 18^h 45^m 31^s.03$$

$$\delta_{1931.0} = +89^\circ 2' 8''.06$$

Nk) 76 Draconis 5^m.69

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl.	AR.	Dekl.	Gl.	AR.	Dekl.	Gl.	AR.	Dekl.	Gl.
	20 ^h 47 ^m	82° 16'	in	20 ^h 47 ^m	82° 16'	in	20 ^h 47 ^m	82° 16'	in	20 ^h 47 ^m	82° 16'	in
1	30.97	41.59	+4 — 3	29.08	32.17	+2 + 9	29.92	23.24	0 + 9	33.30	16.23	—4 — 6
2	30.87	41.32	+5 + 2	29.07	31.84	0 + 8	29.99	22.95	—2 + 6	33.44	16.09	—3 — 9
3	30.77	41.06	+4 + 7	29.06	31.51	—2 + 5	30.06	22.66	—3 + 2	33.58	15.95	—2 — 10
4	30.67	40.79	+3 + 9	29.05	31.18	—4 + 1	30.14	22.38	—4 — 3	33.72	15.82	0 — 8
5	30.57	40.52	+1 + 10	29.05	30.85	—4 — 4	30.22	22.10	—4 — 7	33.87	15.69	+2 — 5
6	30.48	40.24	—1 + 8	29.05	30.52	—4 — 8	30.31	21.83	—3 — 9	34.01	15.57	+3 0
7	30.39	39.96	—3 + 4	29.05	30.19	—3 — 9	30.40	21.56	—1 — 9	34.16	15.45	+4 + 5
8	30.30	39.68	—4 — 1	29.06	29.86	—1 — 8	30.49	21.29	0 — 7	34.30	15.34	+3 + 9
9	30.22	39.40	—4 — 6	29.07	29.53	+1 — 5	30.58	21.02	+2 — 3	34.45	15.24	+2 + 12
10	30.14	39.11	—3 — 9	29.08	29.20	+3 — 1	30.67	20.76	+3 + 2	34.60	15.14	+1 + 12
11	30.06	38.82	—2 — 9	29.09	28.87	+3 + 4	30.77	20.50	+3 + 7	34.75	15.05	—1 + 10
12	29.99	38.53	0 — 8	29.11	28.55	+3 + 8	30.87	20.25	+3 + 10	34.90	14.97	—2 + 7
13	29.92	38.23	+2 — 4	29.13	28.22	+2 + 11	30.97	20.00	+1 + 12	35.06	14.89	—3 + 3
14	29.85	37.93	+3 0	29.16	27.89	+1 + 11	31.08	19.76	0 + 11	35.21	14.82	—4 — 2
15	29.78	37.63	+4 + 5	29.19	27.57	0 + 10	31.19	19.52	—1 + 9	35.37	14.75	—4 — 6
16	29.71	37.32	+3 + 9	29.22	27.25	—2 + 7	31.30	19.28	—3 + 5	35.52	14.69	—3 — 9
17	29.65	37.01	+2 + 11	29.25	26.93	—3 + 3	31.41	19.05	—4 + 1	35.68	14.64	—1 — 10
18	29.59	36.70	+1 + 11	29.29	26.61	—4 — 1	31.52	18.83	—4 — 3	35.83	14.59	0 — 10
19	29.53	36.39	—1 + 9	29.33	26.29	—4 — 5	31.63	18.61	—3 — 7	35.99	14.55	+2 — 8
20	29.48	36.07	—2 + 6	29.38	25.97	—3 — 9	31.75	18.39	—2 — 10	36.14	14.51	+4 — 5
21	29.43	35.75	—3 + 2	29.43	25.65	—2 — 11	31.87	18.18	—1 — 11	36.30	14.48	+5 0
22	29.39	35.43	—4 — 3	29.48	25.34	0 — 11	31.99	17.98	+1 — 10	36.46	14.46	+5 + 4
23	29.35	35.11	—3 — 7	29.53	25.03	+2 — 10	32.11	17.78	+3 — 8	36.61	14.44	+4 + 7
24	29.31	34.79	—2 — 10	29.59	24.73	+4 — 6	32.24	17.59	+4 — 4	36.77	14.43	+2 + 9
25	29.27	34.46	—1 — 11	29.65	24.43	+5 — 2	32.36	17.40	+5 + 1	36.93	14.43	0 + 8
26	29.23	34.14	+1 — 11	29.71	24.13	+5 + 3	32.49	17.22	+4 + 5	37.09	14.43	—2 + 5
27	29.20	33.81	+3 — 9	29.78	23.83	+4 + 7	32.62	17.04	+3 + 8	37.24	14.44	—3 + 1
28	29.17	33.49	+4 — 5	29.85	23.53	+3 + 9	32.75	16.87	+1 + 9	37.40	14.45	—4 — 4
29	29.14	33.16	+5 0	29.92	23.24	0 + 9	32.89	16.70	—1 + 7	37.56	14.47	—4 — 8
30	29.12	32.83	+5 + 5				33.02	16.54	—3 + 4	37.72	14.50	—3 — 10
31	29.10	32.50	+4 + 8				33.16	16.38	—4 — 1	37.88	14.53	—1 — 10
32	29.08	32.17	+2 + 9				33.30	16.23	—4 — 6			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 16' 10"	7.434	+7.367	+82° 16' 20"	7.437	+7.369	+82° 16' 40"	7.442	+7.375
20	7.437	+7.369	30	7.439	+7.372	50	7.445	+7.377

$$\alpha_{1931.0} = 20^h 47^m 41^s.73$$

$$\delta_{1931.0} = +82^\circ 16' 38''.29$$

*) Tag der doppelten unteren Kulmination: Feb. 2

Nk) 76 Draconis 5^m.69

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	20 ^h 47 ^m	82° 16'	⁺ 0.01 | 0.01	20 ^h 47 ^m	82° 16'	⁺ 0.01 | 0.01	20 ^h 47 ^m	82° 16'	⁺ 0.01 | 0.01	20 ^h 47 ^m	82° 16'	⁺ 0.01 | 0.01
1	37.88	14.53	-1 -10	42.45	18.50	+4 +5	45.44	26.68	+1 +12	46.25	37.55	-4 0
2	38.04	14.57	+1 -7	42.58	18.71	+3 +9	45.51	27.01	-1 +10	46.23	37.92	-4 -4
3	38.20	14.62	+3 -2	42.71	18.93	+2 +11	45.57	27.34	-2 +7	46.21	38.28	-3 -8
4	38.35	14.67	+3 +3	42.83	19.16	0 +11	45.63	27.67	-3 +3	^{46.19} ^{46.17}	^{38.64} ^{39.01}	^{-2 -10} ^{-1 -11}
5	38.51	14.73	+3 +7	42.95	19.39	-1 +9	45.68	28.00	-4 -1	46.15	39.37	+1 -10
6	38.67	14.80	+3 +11	43.07	19.62	-3 +6	45.74	28.34	-4 -5	46.12	39.73	+3 -7
7	38.83	14.87	+1 +12	43.19	19.85	-4 +2	45.79	28.67	-3 -9	46.09	40.10	+4 -3
8	38.98	14.95	0 +11	43.31	20.09	-4 -3	45.84	29.01	-2 -10	46.05	40.46	+5 +1
9	39.14	15.03	-2 +8	43.43	20.34	-3 -7	45.89	29.35	0 -10	46.01	40.83	+4 +5
10	39.29	15.12	-3 +4	43.54	20.59	-2 -9	45.93	29.69	+2 -9	45.97	41.19	+3 +8
11	39.45	15.21	-4 0	43.65	20.84	-1 -10	45.97	30.04	+3 -5	45.93	41.55	+1 +9
12	39.60	15.31	-4 -4	43.76	21.10	+1 -10	46.01	30.38	+4 -1	45.89	41.91	-1 +7
13	39.76	15.42	-3 -8	43.87	21.36	+2 -7	46.05	30.73	+5 +3	45.84	42.26	-3 +4
14	39.91	15.53	-2 -10	43.97	21.63	+4 -4	46.08	31.08	+4 +7	45.79	42.62	-4 -1
15	40.06	15.65	0 -11	44.08	21.90	+5 +1	46.11	31.43	+2 +9	45.74	42.98	-4 -5
16	40.21	15.77	+1 -9	44.18	22.17	+4 +5	46.14	31.78	0 +9	45.68	43.33	-4 -9
17	40.36	15.90	+3 -6	44.28	22.45	+3 +8	46.17	32.14	-2 +7	45.62	43.69	-2 -10
18	40.51	16.04	+4 -2	44.38	22.73	+2 +10	46.19	32.49	-3 +2	45.56	44.04	0 -9
19	40.66	16.18	+5 +3	44.48	23.01	0 +8	46.21	32.84	-4 -2	45.50	44.39	+2 -5
20	40.80	16.33	+4 +7	44.57	23.30	-2 +5	46.23	33.20	-4 -7	45.44	44.74	+3 0
21	40.95	16.48	+3 +9	44.66	23.59	-4 0	46.25	33.56	-3 -10	45.37	45.09	+3 +5
22	41.09	16.64	+1 +9	44.75	23.88	-4 -4	46.26	33.92	-1 -10	45.30	45.44	+3 +9
23	41.23	16.80	-1 +7	44.84	24.18	-4 -8	46.27	34.28	+1 -8	45.23	45.78	+2 +12
24	41.37	16.97	-3 +3	44.92	24.48	-2 -10	46.28	34.64	+2 -3	45.15	46.13	0 +12
25	41.51	17.14	-4 -2	45.00	24.79	0 -10	46.29	35.01	+3 +2	45.07	46.47	-1 +10
26	41.65	17.32	-4 -7	45.08	25.10	+1 -7	46.29	35.37	+4 +6	44.99	46.81	-3 +7
27	41.79	17.50	-3 -10	45.16	25.41	+3 -2	46.29	35.73	+3 +10	44.91	47.15	-4 +2
28	41.92	17.69	-2 -11	45.23	25.72	+3 +3	46.29	36.10	+2 +12	44.82	47.48	-4 -2
29	42.05	17.89	0 -9	45.30	26.04	+3 +8	46.28	36.46	0 +11	44.73	47.82	-4 -6
30	42.19	18.09	+2 -5	45.37	26.36	+2 +11	46.27	36.82	-2 +9	44.64	48.15	-3 -9
31	42.32	18.29	+3 0	45.44	26.68	+1 +12	46.26	37.19	-3 +5	44.55	48.48	-1 -10
32	42.45	18.50	+4 +5				46.25	37.55	-4 0	44.46	48.81	0 -10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 16' 10"	7.434	+7.367	+82° 16' 20"	7.437	+7.369	+82° 16' 40"	7.442	+7.375
20	7.437	+7.369	30	7.439	+7.372	50	7.445	+7.377

$$\alpha_{1931.0} = 20^h 47^m 41^s.73$$

$$\delta_{1931.0} = +82^\circ 16' 38''.29$$

Nk) 76 Draconis 5^m.69

Tag	September			Oktober			November			Dèzember		
	AR.	Dekl.	« Glieder	AR.	Dekl.	« Glieder	AR.	Dekl.	« Glieder	AR.	Dekl.	« Glieder
	20 ^h 47 ^m	+ 82° 16'	0.01 | 0.01	20 ^h 47 ^m	+ 82° 16'	0.01 | 0.01	20 ^h 47 ^m	+ 82° 17'	0.01 | 0.01	20 ^h 47 ^m	+ 82° 16'	0.01 | 0.01
1	44.46	48.81	0 - 10	40.73	57.29	+4 - 2	35.55	2.11	+2 + 8	30.36	61.77	-3 + 1
2	44.36	49.14	+2 - 8	40.57	57.52	+5 + 2	35.37	2.18	0 + 7	30.19	61.67	-4 - 3
3	44.27	49.46	+4 - 5	40.42	57.74	+4 + 6	35.19	2.25	-2 + 4	30.03	61.56	-4 - 8
4	44.17	49.78	+5 0	40.27	57.96	+3 + 8	35.02	2.31	-3 - 1	29.87	61.45	-3 - 11
5	44.07	50.10	+5 + 4	40.11	58.17	+1 + 8	34.84	2.36	-4 - 6	29.71	61.33	-1 - 11
6	43.97	50.42	+4 + 7	39.96	58.38	-1 + 6	34.66	2.41	-3 - 9	29.56	61.21	+1 - 9
7	43.86	50.73	+2 + 8	39.80	58.58	-3 + 2	34.48	2.45	-2 - 11	29.40	61.08	+3 - 4
8	43.75	51.04	0 + 8	39.64	58.78	-4 - 3	34.30	2.49	0 - 10	29.24	60.95	+4 + 1
9	43.64	51.35	-2 + 5	39.48	58.98	-4 - 7	34.13	2.52	+2 - 7	29.09	60.81	+4 + 6
10	43.53	51.65	-3 + 1	39.32	59.17	-3 - 10	33.95	2.55	+3 - 2	28.94	60.66	+3 + 10
11	43.41	51.95	-4 - 4	39.16	59.36	-1 - 11	33.77	2.57	+4 + 4	28.79	60.51	+2 + 12
12	43.29	52.25	-4 - 8	38.99	59.54	0 - 9	33.59	2.59	+3 + 8	28.64	60.35	0 + 12
13	43.17	52.55	-3 - 10	38.83	59.72	+2 - 4	33.42	2.60	+2 + 12	28.50	60.19	-2 + 9
14	43.05	52.84	-1 - 9	38.67	59.89	+3 + 1	33.24	2.60	+1 + 12	28.35	60.02	-3 + 5
15	42.93	53.13	+1 - 7	38.50	60.05	+4 + 6	33.07	2.60	-1 + 11	28.21	59.85	-4 0
16	42.81	53.42	+3 - 2	38.33	60.21	+3 + 10	32.89	2.59	-3 + 8	28.07	59.67	-4 - 4
17	42.68	53.70	+3 + 3	38.16	60.37	+2 + 12	32.71	2.58	-4 + 3	27.93	59.49	-3 - 7
18	42.55	53.98	+3 + 8	37.99	60.52	0 + 12	32.54	2.56	-4 - 1	27.79	59.30	-2 - 9
19	42.42	54.26	+2 + 11	37.82	60.67	-2 + 10	32.37	2.53	-4 - 5	27.66	59.11	-1 - 10
20	42.29	54.53	+1 + 12	37.64	60.81	-3 + 6	32.19	2.50	-3 - 8	27.53	58.91	+1 - 8
21	42.16	54.80	-1 + 11	37.47	60.95	-4 + 2	32.02	2.46	-2 - 10	27.40	58.70	+3 - 6
22	42.02	55.07	-2 + 8	37.30	61.08	-4 - 3	31.85	2.42	0 - 9	27.27	58.49	+4 - 2
23	41.89	55.33	-3 + 4	37.13	61.21	-4 - 7	31.68	2.37	+2 - 7	27.14	58.28	+4 + 2
24	41.75	55.59	-4 0	36.95	61.33	-3 - 9	31.51	2.32	+3 - 4	27.01	58.06	+4 + 6
25	41.61	55.84	-4 - 5	36.78	61.44	-1 - 10	31.35	2.26	+4 0	26.89	57.84	+3 + 9
26	41.47	56.09	-3 - 8	36.60	61.55	+1 - 9	31.18	2.19	+4 + 4	26.77	57.61	+1 + 9
27	41.32	56.34	-2 - 10	36.43	61.66	+2 - 7	31.01	2.12	+4 + 7	26.65	57.38	-1 + 7
28	41.18	56.58	0 - 10	36.25	61.76	+4 - 3	30.85	2.04	+2 + 9	26.53	57.14	-3 + 4
29	41.03	56.82	+1 - 9	36.08	61.86	+4 + 1	30.68	1.96	0 + 8	26.42	56.90	-4 - 1
30	40.88	57.06	+3 - 6	35.90	61.95	+4 + 5	30.52	1.87	-1 + 6	26.31	56.66	-4 - 6
31	40.73	57.29	+4 - 2	35.73	62.03	+4 + 8	30.36	1.77	-3 + 1	26.21	56.41	-3 - 9
32				35.55	62.11	+2 + 8				26.10	56.16	-2 - 11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+ 82° 16' 40"	7.442	+7.375	+ 82° 16' 50"	7.445	+7.377	+ 82° 17' 0"	7.447	+7.380
50	7.445	+7.377	60	7.447	+7.380	10	7.450	+7.383

$$\alpha_{1931.0} = 20^h 47^m 41^s.73$$

$$\delta_{1931.0} = + 82^\circ 16' 38''.29$$

Sa) Octantis 4 G. 5^m.63

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	1 ^h 41 ^m	85° 7'	in 0.01 0.01	1 ^h 41 ^m	85° 7'	in 0.01 0.01	1 ^h 41 ^m	85° 7'	in 0.01 0.01	1 ^h 41 ^m	85° 6'	in 0.01 0.01
1	21.71	25.37	—3 —12	13.58	22.95	—6 + 2	7.29	16.24	—5 + 4	2.97	65.55	+7 + 7
2	21.44	25.39	—6 —10	13.33	22.78	—4 + 7	7.10	15.94	—1 + 8	2.89	65.17	+8 + 3
3	21.18	25.40	—8 —6	13.08	22.60	0 + 10	6.91	15.64	+3 + 10	2.81	64.79	+7 —1
4	20.91	25.40	—7 —1	12.83	22.41	+4 + 10	6.73	15.33	+6 + 9	2.74	64.41	+4 —5
5	20.65	25.39	—5 + 5	12.58	22.22	+7 + 9	6.55	15.02	+8 + 6	2.67	64.02	0 —7
6	20.39	25.38	—2 + 9	12.34	22.03	+8 + 5	6.37	14.70	+8 + 2	2.60	63.64	—3 —7
7	20.12	25.36	+2 + 11	12.10	21.83	+7 + 1	6.20	14.38	+6 —2	2.54	63.26	—7 —5
8	19.86	25.34	+5 + 10	11.85	21.63	+5 —3	6.03	14.06	+2 —5	2.48	62.87	—8 —2
9	19.59	25.31	+7 + 7	11.61	21.42	+1 —6	5.86	13.73	—1 —7	2.42	62.49	—8 + 2
10	19.33	25.28	+8 + 3	11.37	21.21	—3 —7	5.70	13.40	—5 —6	2.37	62.10	—7 + 6
11	19.06	25.24	+6 —1	11.14	20.99	—6 —6	5.54	13.07	—7 —4	2.32	61.71	—4 + 9
12	18.80	25.19	+3 —5	10.91	20.76	—8 —3	5.38	12.74	—8 0	2.28	61.33	—1 + 10
13	18.53	25.13	0 —7	10.68	20.53	—8 0	5.23	12.40	—8 + 3	2.24	60.94	+2 + 10
14	18.27	25.07	—4 —7	10.45	20.30	—7 + 4	5.08	12.06	—6 + 7	2.21	60.56	+5 + 8
15	18.00	25.00	—7 —5	10.22	20.06	—5 + 7	4.93	11.72	—3 + 9	2.18	60.17	+7 + 5
16	17.74	24.93	—8 —2	9.99	19.81	—2 + 9	4.79	11.37	0 + 10	2.15	59.78	+8 + 1
17	17.47	24.85	—8 + 2	9.77	19.56	+2 + 9	4.65	11.02	+3 + 9	2.13	59.39	+7 —4
18	17.21	24.77	—6 + 5	9.55	19.31	+4 + 8	4.51	10.67	+6 + 7	2.11	59.01	+5 —7
19	16.94	24.68	—3 + 8	9.33	19.05	+7 + 6	4.38	10.32	+7 + 4	2.09	58.62	+2 —10
20	16.68	24.58	0 + 9	9.11	18.79	+8 + 2	4.25	9.96	+8 0	2.08	58.23	—1 —12
21	16.42	24.48	+3 + 9	8.90	18.52	+7 —3	4.12	9.60	+6 —5	2.07	57.84	—4 —12
22	16.15	24.37	+5 + 7	8.69	18.25	+6 —7	4.00	9.24	+4 —9	2.07	57.45	—7 —9
23	15.89	24.25	+7 + 4	8.48	17.98	+3 —11	3.88	8.88	+1 —12	2.07	57.06	—8 —5
24	15.63	24.13	+8 0	8.27	17.70	0 —13	3.77	8.52	—2 —12	2.07	56.68	—7 0
25	15.37	24.00	+7 —5	8.07	17.42	—4 —13	3.66	8.15	—5 —11	2.08	56.29	—4 + 5
26	15.11	23.87	+5 —9	7.87	17.13	—6 —10	3.55	7.78	—7 —8	2.09	55.91	0 + 8
27	14.85	23.73	+2 —12	7.67	16.84	—8 —6	3.44	7.41	—7 —3	2.11	55.53	+4 + 9
28	14.59	23.59	—2 —13	7.48	16.54	—7 —1	3.34	7.04	—6 + 2	2.13	55.15	+7 + 8
29	14.34	23.44	—5 —12	7.29	16.24	—5 + 4	3.24	6.67	—3 + 6	2.16	54.77	+8 + 4
30	14.08	23.28	—7 —8				3.15	6.30	+1 + 9	2.19	54.40	+8 0
31	13.83	23.12	—8 —4				3.06	5.92	+5 + 9	2.22	54.02	+6 —4
32	13.58	22.95	—6 + 2				2.97	5.55	+7 + 7			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
—85° 6' 50"	11.740	—11.698	—85° 7' 0"	11.747	—11.705	—85° 7' 20"	11.761	—11.718
60	11.747	—11.705	10	11.754	—11.711	30	11.767	—11.725

$$\alpha_{1931.0} = 1^h 41^m 11^s.30$$

$$\delta_{1931.0} = -85^\circ 7' 7''.29$$

*) Tag der doppelten unteren Kulmination: April 18

Sa) Octantis 4 G. 5^m.63

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	1 ^h 41 ^m	—	in	1 ^h 41 ^m	—	in	1 ^h 41 ^m	—	in	1 ^h 41 ^m	—	in
	1 ^h 41 ^m	85° 6'	0.01 0.01	1 ^h 41 ^m	85° 6'	0.01 0.01	1 ^h 41 ^m	85° 6'	0.01 0.01	1 ^h 41 ^m	85° 6'	0.01 0.01
1	2.22	54.02	+6 — 4	5.13	43.28	—7 — 6	10.87	36.07	—7 + 5	18.36	33.54	+4 +10
2	2.26	53.65	+2 — 7	5.28	42.98	—8 — 2	11.10	35.91	—4 + 8	18.60	33.55	+6 + 7
3	2.30	53.27	—2 — 8	5.43	42.68	—8 + 2	11.33	35.75	—1 +10	18.84	33.57	+7 + 3
4	2.34	52.90	—6 — 7	5.59	42.39	—6 + 6	11.56	35.59	+2 +10	19.09	33.59	+7 — 1
5	2.39	52.53	—8 — 4	5.75	42.10	—3 + 9	11.79	35.44	+5 + 9	19.33	33.62	+6 — 5
6	2.44	52.15	—8 0	5.91	41.81	0 +10	12.03	35.30	+7 + 6	19.57	33.66	+4 — 9
7	2.50	51.78	—7 + 4	6.08	41.53	+3 +10	12.26	35.16	+8 + 2	19.82	33.70	+1 —12
8	2.56	51.41	—5 + 8	6.25	41.25	+6 + 8	12.49	35.02	+7 — 2	20.06	33.75	—3 —12
9	2.63	51.04	—2 +10	6.42	40.97	+7 + 4	12.73	34.89	+5 — 7	20.30	33.80	—5 —11
10	2.70	50.68	+1 +10	6.59	40.70	+7 0	12.96	34.77	+3 —10	20.54	33.86	—7 — 7
11	2.77	50.32	+4 + 9	6.77	40.43	+7 — 4	13.20	34.65	—1 —12	20.78	33.93	—7 — 3
12	2.85	49.96	+6 + 7	6.95	40.17	+4 — 8	13.44	34.54	—4 —12	21.01	34.00	—6 + 2
13	2.93	49.60	+7 + 3	7.14	39.91	+1 —11	13.68	34.43	—7 — 9	21.24	34.07	—3 + 7
14	3.01	49.25	+7 — 1	7.33	39.66	—2 —12	13.93	34.33	—8 — 5	21.48	34.15	+1 + 9
15	3.10	48.89	+6 — 5	7.52	39.41	—5 —11	14.17	34.24	—7 0	21.71	34.24	+5 +10
16	3.19	48.54	+3 — 9	7.71	39.17	—7 — 7	14.41	34.15	—5 + 5	21.94	34.33	+7 + 7
17	3.28	48.19	0 —11	7.90	38.93	—8 — 3	14.66	34.07	—1 + 8	22.17	34.43	+8 + 4
18	3.38	47.84	—3 —12	8.10	38.69	—6 + 2	14.90	33.99	+3 +10	22.40	34.54	+7 — 1
19	3.48	47.49	—6 —10	8.30	38.46	—3 + 7	15.15	33.92	+6 + 9	22.63	34.65	+4 — 5
20	3.59	47.15	—8 — 6	8.50	38.23	0 + 9	15.40	33.86	+8 + 6	22.85	34.77	0 — 7
21	3.70	46.81	—7 — 1	8.71	38.01	+4 +10	15.64	33.80	+8 + 1	23.07	34.89	—4 — 8
22	3.81	46.47	—5 + 4	8.92	37.79	+7 + 8	15.89	33.75	+6 — 3	23.29	35.02	—7 — 6
23	3.93	46.14	—2 + 7	9.13	37.58	+8 + 4	16.13	33.70	+3 — 7	23.50	35.15	—8 — 2
24	4.05	45.81	+2 + 9	9.34	37.37	+8 — 1	16.38	33.66	—1 — 8	23.72	35.29	—8 + 2
25	4.17	45.49	+6 + 9	9.55	37.17	+5 — 5	16.63	33.62	—5 — 8	23.93	35.43	—7 + 6
26	4.30	45.16	+8 + 6	9.76	36.97	+1 — 8	16.88	33.59	—7 — 5	24.14	35.58	—4 + 9
27	4.43	44.84	+8 + 1	9.98	36.78	—3 — 8	17.12	33.57	—8 — 1	24.35	35.73	—1 +10
28	4.56	44.52	+7 — 3	10.20	36.60	—6 — 7	17.37	33.55	—8 + 3	24.56	35.89	+3 +10
29	4.70	44.20	+4 — 7	10.42	36.42	—8 — 4	17.62	33.54	—6 + 7	24.76	36.05	+5 + 8
30	4.84	43.89	0 — 8	10.65	36.24	—8 0	17.87	33.53	—3 + 9	24.96	36.22	+7 + 5
31	4.98	43.58	—4 — 8	10.87	36.07	—7 + 5	18.11	33.53	+1 +10	25.16	36.40	+7 + 1
32	5.13	43.28	—7 — 6				18.36	33.54	+4 +10	25.35	36.58	+7 — 4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
—85° 6' 30"	11.727	—11.684	—85° 6' 40"	11.734	—11.691	—85° 6' 50"	11.740	—11.698
40	11.734	—11.691	50	11.740	—11.698	60	11.747	—11.705

$$\alpha_{1931.0} = 1^h 41^m 11^s.30$$

$$\delta_{1931.0} = -85^\circ 7' 7''.29$$

Sa) Octantis 4 G. 5^m.63

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	1 ^h 41 ^m	85° 6'	0.01 0.01	1 ^h 41 ^m	85° 6'	0.01 0.01	1 ^h 41 ^m	85° 6'	0.01 0.01	1 ^h 41 ^m	85° 7'	0.01 0.01
1	25.35	36.58	+7 - 4	29.54	43.90	0 - 11	29.63	53.75	-6 + 1	25.46	1.50	+3 + 9
2	25.54	36.76	+5 - 8	29.62	44.20	-3 - 12	29.56	54.05	-3 + 5	25.26	1.70	+6 + 8
3	25.73	36.95	+2 - 11	29.69	44.49	-6 - 10	29.48	54.35	0 + 8	25.06	1.89	+8 + 4
4	25.91	37.15	-1 - 12	29.76	44.79	-7 - 7	29.39	54.65	+4 + 8	24.85	2.07	+8 0
5	26.09	37.35	-5 - 12	29.82	45.09	-7 - 2	29.30	54.94	+7 + 6	24.64	2.25	+6 - 5
6	26.27	37.55	-7 - 9	29.88	45.39	-5 + 2	29.20	55.23	+8 + 3	24.43	2.43	+3 - 8
7	26.45	37.76	-7 - 5	29.93	45.69	-2 + 6	29.10	55.52	+8 - 2	24.22	2.60	-1 - 9
8	26.62	37.97	-6 0	29.98	46.00	+2 + 8	28.99	55.81	+5 - 6	24.00	2.77	-5 - 9
9	26.79	38.19	-4 + 5	30.03	46.30	+6 + 8	28.88	56.09	+1 - 8	23.78	2.93	-7 - 5
10	26.96	38.41	0 + 8	30.07	46.61	+8 + 5	28.77	56.37	-3 - 9	23.56	3.08	-9 - 1
11	27.12	38.63	+4 + 9	30.10	46.92	+8 + 1	28.65	56.65	-6 - 7	23.33	3.23	-8 + 4
12	27.28	38.86	+7 + 8	30.13	47.23	+7 - 3	28.53	56.93	-8 - 3	23.10	3.37	-6 + 8
13	27.44	39.09	+8 + 5	30.16	47.54	+3 - 6	28.41	57.20	-9 + 1	22.87	3.51	-2 + 11
14	27.59	39.33	+8 0	30.18	47.85	0 - 8	28.28	57.47	-7 + 6	22.64	3.64	+1 + 11
15	27.74	39.57	+5 - 4	30.19	48.16	-4 - 8	28.15	57.74	-4 + 10	22.41	3.77	+4 + 10
16	27.88	39.82	+2 - 7	30.20	48.48	-7 - 5	28.01	58.00	-1 + 11	22.17	3.89	+6 + 8
17	28.02	40.07	-2 - 8	30.21	48.79	-8 - 1	27.87	58.26	+2 + 11	21.93	4.00	+7 + 4
18	28.16	40.32	-6 - 7	30.21	49.10	-8 + 4	27.72	58.52	+5 + 10	21.69	4.11	+7 0
19	28.29	40.58	-8 - 3	30.20	49.73	-3 + 10	27.57	58.77	+7 + 6	21.45	4.21	+5 - 5
20	28.42	40.84	-8 + 1	30.19	50.04	0 + 11	27.42	59.02	+7 + 2	21.20	4.31	+3 - 8
21	28.54	41.10	-7 + 5	30.17	50.35	+3 + 11	27.26	59.27	+7 - 2	20.96	4.40	0 - 10
22	28.66	41.37	-5 + 9	30.15	50.67	+6 + 8	27.10	59.51	+5 - 6	20.71	4.48	-3 - 11
23	28.77	41.64	-2 + 11	30.12	50.98	+7 + 5	26.93	59.75	+2 - 9	20.46	4.56	-6 - 10
24	28.88	41.91	+1 + 11	30.08	51.29	+7 0	26.76	59.98	-1 - 11	20.21	4.63	-7 - 6
25	28.99	42.19	+4 + 10	30.04	51.60	+6 - 4	26.58	60.21	-4 - 11	19.95	4.70	-7 - 2
26	29.09	42.47	+6 + 7	30.00	51.91	+4 - 8	26.40	60.44	-6 - 9	19.69	4.76	-6 + 3
27	29.19	42.75	+7 + 3	29.95	52.22	+1 - 10	26.22	60.66	-7 - 5	19.44	4.81	-3 + 7
28	29.28	43.03	+7 - 2	29.90	52.53	-2 - 12	26.04	60.88	-7 0	19.18	4.86	+1 + 9
29	29.37	43.32	+6 - 6	29.84	52.84	-5 - 11	25.85	61.09	-4 + 4	18.92	4.90	+5 + 9
30	29.46	43.61	+3 - 9	29.77	53.14	-7 - 8	25.66	61.30	-1 + 7	18.66	4.93	+7 + 6
31	29.54	43.90	0 - 11	29.70	53.45	-7 - 4	25.46	61.50	+3 + 9	18.40	4.96	+8 + 2
32				29.63	53.75	-6 + 1				18.13	4.98	+7 - 2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-85° 6' 30"	11.727	-11.684	-85° 6' 50"	11.740	-11.698	-85° 7' 0"	11.747	-11.705
40	11.734	-11.691	60	11.747	-11.705	10	11.754	-11.711

$$\alpha_{1931.0} = 1^h 41^m 11^s.30$$

$$\delta_{1931.0} = -85^\circ 7' 7''.29$$

Sb) ξ Mensae 5^m.85

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	5 ^h 6 ^m	82° 33'	in o.oi o.oi	5 ^h 6 ^m	82° 34'	in o.oi o.oi	5 ^h 6 ^m	82° 34'	in o.oi o.oi	5 ^h 6 ^m	82° 33'	in o.oi o.oi
1	50.88	56.39	+3 -10	46.63	3.55	-3 -5	41.41	5.97	-3 -2	35.43	63.80	+1 +11
2	50.77	56.68	+1 -12	46.46	3.71	-3 0	41.21	5.98	-3 +3	35.25	63.65	+2 +10
3	50.67	56.97	-1 -11	46.29	3.86	-3 +5	41.02	5.98	-2 +8	35.07	63.49	+3 +6
4	50.57	57.25	-3 -8	46.11	4.01	-2 +10	40.82	5.98	0 +11	34.89	63.33	+3 +1
5	50.46	57.53	-4 -3	45.94	4.15	0 +11	40.63	5.97	+1 +11	34.71	63.17	+2 -4
6	50.35	57.81	-4 +3	45.76	4.29	+1 +10	40.43	5.96	+2 +9	34.53	63.00	+1 -8
7	50.24	58.08	-3 +8	45.58	4.42	+2 +7	40.23	5.94	+3 +5	34.36	62.83	-1 -10
8	50.12	58.35	-1 +11	45.40	4.55	+3 +3	40.03	5.92	+2 0	34.19	62.66	-2 -10
9	50.00	58.62	+1 +11	45.22	4.67	+2 -2	39.84	5.89	+1 -5	34.01	62.48	-3 -8
10	49.88	58.88	+2 +9	45.04	4.78	+1 -7	39.64	5.86	0 -9	33.84	62.30	-4 -4
11	49.76	59.14	+3 +5	44.85	4.89	0 -9	39.44	5.82	-2 -10	33.67	62.11	-4 0
12	49.63	59.39	+3 0	44.67	5.00	-2 -10	39.24	5.78	-3 -9	33.50	61.92	-3 +4
13	49.50	59.64	+2 -4	44.49	5.10	-3 -8	39.05	5.73	-4 -7	33.34	61.72	-2 +8
14	49.37	59.89	+1 -8	44.30	5.19	-4 -5	38.85	5.68	-4 -3	33.17	61.52	-1 +10
15	49.24	60.13	-1 -10	44.11	5.28	-4 -1	38.66	5.62	-4 +2	33.01	61.31	+1 +10
16	49.10	60.37	-2 -9	43.92	5.37	-3 +3	38.46	5.55	-3 +5	32.85	61.10	+2 +9
17	48.96	60.60	-3 -7	43.73	5.45	-2 +7	38.27	5.48	-1 +8	32.69	60.88	+3 +6
18	48.82	60.83	-4 -4	43.54	5.52	-1 +9	38.07	5.40	0 +10	32.54	60.66	+4 +1
19	48.68	61.05	-4 0	43.35	5.59	+1 +10	37.88	5.32	+2 +9	32.38	60.44	+4 -3
20	48.53	61.27	-3 +4	43.16	5.65	+2 +9	37.68	5.23	+3 +8	32.23	60.21	+3 -7
21	48.38	61.48	-2 +7	42.96	5.71	+3 +6	37.49	5.14	+4 +4	32.08	59.98	+2 -10
22	48.23	61.69	0 +9	42.77	5.76	+4 +2	37.29	5.04	+4 0	31.93	59.75	0 -11
23	48.08	61.89	+2 +9	42.58	5.80	+4 -2	37.10	4.94	+4 -5	31.78	59.51	-1 -10
24	47.93	62.09	+3 +8	42.38	5.84	+4 -7	36.91	4.84	+3 -9	31.64	59.27	-2 -6
25	47.77	62.29	+4 +5	42.19	5.88	+2 -10	36.72	4.73	+1 -11	31.50	59.02	-3 -1
26	47.61	62.48	+4 +1	42.00	5.91	+1 -12	36.54	4.61	0 -11	31.36	58.77	-2 +4
27	47.45	62.67	+4 -4	41.80	5.93	-1 -11	36.35	4.49	-2 -9	31.22	58.52	-1 +9
28	47.29	62.86	+3 -8	41.61	5.95	-2 -7	36.16	4.36	-3 -4	31.08	58.26	0 +11
29	47.13	63.04	+2 -11	41.41	5.97	-3 -2	35.98	4.23	-3 +1	30.94	58.00	+2 +11
30	46.96	63.22	0 -12				35.79	4.09	-2 +6	30.81	57.74	+3 +8
31	46.80	63.39	-2 -10				35.61	3.95	-1 +10	30.68	57.47	+3 +3
32	46.63	63.55	-3 -5				35.43	3.80	+1 +11			

δ	sec δ	tg δ	δ	sec δ	tg δ
-82° 33' 50"	7.727	-7.662	-82° 34' 00"	7.730	-7.665
60	7.730	-7.665	10	7.732	-7.668

$$\alpha_{1931.0} = 5^h 6^m 39^s.55$$

$$\delta_{1931.0} = -82^\circ 33' 55''.68$$

Sb) ξ Mensae $5^m.85$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder
	$5^h 6^m$	$82^\circ 33'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$	$5^h 6^m$	$82^\circ 33'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$	$5^h 6^m$	$82^\circ 33'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$	$5^h 6^m$	$82^\circ 33'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$
1	30.68	57.47	+3 +3	27.86	47.97	-1 -10	27.68	37.85	-4 -5	30.09	28.92	-1 +9
2	30.55	57.20	+3 -2	27.81	47.64	-2 -9	27.72	37.53	-4 0	30.20	28.69	0 +10
3	30.42	56.93	+2 -6	27.76	47.31	-3 -7	27.76	37.20	-3 +4	30.32	28.46	+2 +9
4	30.30	56.66	0 -9	27.72	46.97	-4 -3	27.80	36.88	-2 +7	30.44	28.24	+3 +7
5	30.18	56.38	-2 -10	27.68	46.63	-4 +1	27.85	36.56	-1 +10	30.56	28.02	+4 +4
6	30.06	56.10	-3 -9	27.64	46.29	-3 +5	27.90	36.24	+1 +10	30.68	27.80	+4 -1
7	29.94	55.82	-4 -5	27.61	45.95	-2 +8	27.95	35.93	+2 +9	30.81	27.59	+4 -5
8	29.83	55.53	-4 -1	27.58	45.61	0 +10	28.00	35.61	+3 +6	30.94	27.38	+3 -9
9	29.72	55.24	-4 +3	27.55	45.27	+1 +10	28.06	35.30	+4 +2	31.07	27.18	+1 -11
10	29.61	54.95	-3 +7	27.52	44.93	+3 +8	28.12	34.99	+4 -3	31.20	26.98	0 -11
11	29.50	54.65	-1 +9	27.50	44.59	+4 +5	28.18	34.68	+3 -7	31.33	26.79	-2 -9
12	29.39	54.35	0 +10	27.48	44.24	+4 0	28.25	34.38	+2 -10	31.46	26.60	-3 -4
13	29.29	54.05	+2 +9	27.47	43.90	+4 -4	28.32	34.08	0 -11	31.60	26.42	-3 +1
14	29.19	53.75	+3 +7	27.46	43.56	+3 -8	28.39	33.78	-1 -10	31.74	26.24	-2 +6
15	29.10	53.44	+4 +3	27.45	43.22	+1 -11	28.46	33.48	-3 -7	31.88	26.07	-1 +10
16	29.00	53.14	+4 -1	27.44	42.88	0 -11	28.53	33.18	-3 -2	32.02	25.91	0 +11
17	28.91	52.83	+3 -6	27.43	42.54	-2 -9	28.61	32.89	-3 +3	32.16	25.75	+2 +10
18	28.82	52.51	+2 -9	27.43	42.20	-3 -5	28.69	32.60	-2 +8	32.31	25.59	+3 +6
19	28.73	52.20	+1 -11	27.43	41.86	-3 0	28.78	32.32	0 +11	32.46	25.44	+3 +1
20	28.65	51.89	-1 -11	27.43	41.52	-3 +5	28.86	32.04	+1 +11	32.60	25.29	+2 -4
21	28.57	51.58	-2 -8	27.44	41.18	-1 +9	28.95	31.76	+2 +9	32.75	25.15	+1 -8
22	28.49	51.26	-3 -3	27.45	40.84	0 +11	29.04	31.48	+3 +4	32.90	25.02	-1 -10
23	28.41	50.93	-3 +2	27.47	40.51	+2 +10	29.13	31.21	+3 -1	33.05	24.89	-3 -10
24	28.34	50.61	-2 +7	27.49	40.17	+3 +7	29.23	30.94	+2 -6	33.20	24.76	-4 -8
25	28.27	50.29	0 +10	27.51	39.84	+3 +2	29.33	30.67	0 -9	33.36	24.64	-4 -4
26	28.20	49.96	+1 +11	27.53	39.50	+3 -3	29.43	30.41	-1 -10	33.51	24.53	-4 +1
27	28.14	49.63	+2 +9	27.55	39.17	+2 -7	29.53	30.15	-3 -9	33.66	24.43	-3 +5
28	28.08	49.31	+3 +5	27.58	38.84	0 -10	29.64	29.90	-4 -6	33.82	24.33	-2 +8
29	28.02	48.98	+3 0	27.61	38.51	-2 -10	29.75	29.65	-4 -2	33.98	24.24	0 +10
30	27.96	48.64	+2 -5	27.64	38.18	-3 -8	29.86	29.40	-4 +2	34.14	24.15	+1 +10
31	27.91	48.31	+1 -9	27.68	37.85	-4 -5	29.97	29.16	-3 +6	34.29	24.07	+2 +8
32	27.86	47.97	-1 -10				30.09	28.92	-1 +9	34.45	23.99	+3 +5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$-82^\circ 33' 20''$	7.718	-7.653	$-82^\circ 33' 30''$	7.721	-7.656	$-82^\circ 33' 50''$	7.727	-7.662
30	7.721	-7.656	40	7.724	-7.659	60	7.730	-7.665

$$\alpha_{1931.0} = 5^h 6^m 39^s.55$$

$$\delta_{1931.0} = -82^\circ 33' 55''.68$$

*) Tag der doppelten unteren Kulmination: Juni 9

Sb) ξ Mensae 5^m.85

Tag	September			Oktober			November			Dezember		
	AR	Dekl.	\angle Glieder	AR	Dekl.	\angle Glieder	AR	Dekl.	\angle Glieder	AR	Dekl.	\angle Glieder
	5 ^h 6 ^m	82° 33'	$\begin{smallmatrix} \circ \\ \text{O} \end{smallmatrix} \begin{smallmatrix} \circ \\ \text{O} \end{smallmatrix}$	5 ^h 6 ^m	82° 33'	$\begin{smallmatrix} \circ \\ \text{O} \end{smallmatrix} \begin{smallmatrix} \circ \\ \text{O} \end{smallmatrix}$	5 ^h 6 ^m	82° 33'	$\begin{smallmatrix} \circ \\ \text{O} \end{smallmatrix} \begin{smallmatrix} \circ \\ \text{O} \end{smallmatrix}$	5 ^h 6 ^m	82° 33'	$\begin{smallmatrix} \circ \\ \text{O} \end{smallmatrix} \begin{smallmatrix} \circ \\ \text{O} \end{smallmatrix}$
I	34.45	23.99	+3 + 5	39.27	24.60	+3 - 6	43.26	30.76	-1 - 9	44.83	40.22	-2 + 3
2	34.61	23.92	+4 + 1	39.42	24.71	+2 -10	43.36	31.04	-2 - 6	44.83	40.56	-1 + 8
3	34.77	23.86	+4 - 4	39.58	24.83	+1 -11	43.45	31.32	-3 0	44.83	40.90	0 +10
4	34.93	23.80	+3 - 8	39.73	24.96	-1 -11	43.54	31.60	-2 + 5	44.83	41.24	+2 +11
5	35.09	23.75	+2 -11	39.88	25.09	-2 - 8	43.63	31.88	-1 + 9	44.82	41.58	+3 + 9
6	35.25	23.70	0 -11	40.03	25.23	-3 - 3	43.71	32.17	+1 +11	44.81	41.92	+4 + 4
7	35.41	23.66	-1 -10	40.17	25.38	-3 + 2	43.79	32.46	+2 +10	44.80	42.27	+3 - 1
8	35.57	23.63	-2 - 6	40.32	25.53	-2 + 7	43.87	32.76	+3 + 7	44.78	42.61	+2 - 6
9	35.73	23.60	-3 - 1	40.47	25.69	0 +10	43.94	33.06	+3 + 2	44.76	42.95	+1 - 9
10	35.90	23.58	-2 + 4	40.61	25.86	+1 +11	44.01	33.36	+3 - 3	44.71	43.62	-3 - 9
11	36.06	23.57	-1 + 9	40.75	26.03	+2 + 9	44.08	33.67	+2 - 8	44.68	43.96	-4 - 6
12	36.22	23.56	0 +11	40.89	26.20	+3 + 5	44.15	33.97	0 -10	44.65	44.30	-4 - 2
13	36.38	23.56	+2 +11	41.03	26.38	+3 0	44.22	34.28	-2 -10	44.61	44.63	-4 + 3
14	36.55	23.56	+3 + 8	41.16	26.57	+2 - 5	44.28	34.59	-3 - 8	44.57	44.97	-3 + 7
15	36.71	23.57	+3 + 3	41.30	26.76	+1 - 9	44.34	34.91	-4 - 4	44.53	45.30	-2 +10
16	36.88	23.59	+3 - 2	41.43	26.95	-1 -10	44.39	35.23	-4 0	44.49	45.64	0 +11
17	37.04	23.61	+1 - 7	41.56	27.15	-3 - 9	44.44	35.55	-4 + 5	44.44	45.97	+2 +10
18	37.20	23.64	0 - 9	41.69	27.36	-4 - 7	44.49	35.87	-3 + 8	44.39	46.29	+3 + 7
19	37.36	23.68	-2 -10	41.82	27.57	-4 - 2	44.54	36.20	-1 +10	44.33	46.62	+3 + 3
20	37.53	23.72	-3 - 8	41.94	27.78	-4 + 2	44.58	36.52	+1 +10	44.27	46.95	+4 - 1
21	37.69	23.77	-4 - 5	42.06	28.00	-3 + 6	44.62	36.85	+2 + 9	44.21	47.27	+3 - 6
22	37.85	23.83	-4 - 1	42.18	28.23	-2 + 9	44.66	37.18	+3 + 6	44.14	47.59	+2 - 9
23	38.01	23.89	-4 + 3	42.30	28.46	0 +10	44.69	37.51	+4 + 2	44.07	47.92	+1 -11
24	38.17	23.96	-3 + 7	42.41	28.70	+1 +10	44.72	37.84	+3 - 3	44.00	48.24	-1 -11
25	38.33	24.03	-1 + 9	42.53	28.94	+2 + 8	44.74	38.18	+3 - 7	43.92	48.55	-2 - 8
26	38.49	24.11	0 +10	42.64	29.19	+3 + 4	44.76	38.52	+2 -10	43.84	48.86	-3 - 4
27	38.65	24.19	+2 + 9	42.75	29.44	+4 0	44.78	38.86	0 -11	43.76	49.17	-3 + 1
28	38.81	24.28	+3 + 6	42.86	29.70	+3 - 5	44.80	39.20	-1 -10	43.67	49.48	-2 + 6
29	38.96	24.38	+4 + 2	42.97	29.96	+2 - 9	44.81	39.54	-2 - 7	43.58	49.78	-1 +10
30	39.12	24.49	+4 - 2	43.07	30.22	+1 -11	44.82	39.88	-3 - 2	43.49	50.08	+1 +11
31	39.27	24.60	+3 - 6	43.17	30.49	0 -11	44.83	40.22	-2 + 3	43.40	50.38	+2 +10
32				43.26	30.76	-1 - 9				43.31	50.68	+3 + 6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-82° 33' 20"	7.718	-7.653	-82° 33' 30"	7.721	-7.656	-82° 33' 50"	7.727	-7.662
30	7.721	-7.656	40	7.724	-7.659	60	7.730	-7.665

$$\alpha_{1931.0} = 5^h 6^m 39^s.55$$

$$\delta_{1931.0} = -82^\circ 33' 55''.68$$

Sc) ζ Octantis 5^m.38

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder
	9 ^h 7 ^m	85° 23'	in 0.01 | 0.01	9 ^h 7 ^m	85° 23'	in 0.01 | 0.01	9 ^h 7 ^m	85° 23'	in 0.01 | 0.01	9 ^h 6 ^m	85° 23'	in 0.01 | 0.01
1	12.74	2.42	+7 + 6	14.33	13.74	+5 - 9	11.70	24.53	-1 - 8	65.32	33.82	-7 + 7
2	12.86	2.75	+9 + 1	14.30	14.13	+1 - 9	11.54	24.88	-5 - 5	65.07	34.06	-5 + 9
3	12.98	3.09	+8 - 4	14.27	14.51	-3 - 7	11.38	25.22	-7 0	64.82	34.30	-2 + 9
4	13.10	3.43	+6 - 8	14.24	14.90	-6 - 4	11.22	25.56	-8 + 4	64.56	34.53	+2 + 7
5	13.21	3.77	+3 - 10	14.20	15.28	-8 + 1	11.05	25.90	-7 + 8	64.30	34.76	+5 + 3
6	13.31	4.11	-1 - 9	14.15	15.66	-8 + 5	10.88	26.24	-4 + 9	64.04	34.98	+6 - 2
7	13.41	4.46	-5 - 7	14.10 14.05	16.04 16.43	-6 + 8 -3 + 9	10.71	26.57	-1 + 8	63.78	35.20	+6 - 7
8	13.51	4.81	-8 - 2	13.99	16.81	+1 + 7	10.53	26.90	+3 + 5	63.52	35.41	+5 - 10
9	13.60	5.16	-8 + 3	13.92	17.19	+4 + 4	10.35	27.23	+5 + 1	63.26	35.62	+2 - 12
10	13.68	5.51	-7 + 7	13.85	17.57	+6 - 1	10.17	27.56	+6 - 4	62.99	35.82	-1 - 11
11	13.76	5.87	-5 + 9	13.78	17.95	+6 - 5	9.98	27.88	+6 - 8	62.72	36.02	-4 - 9
12	13.84	6.23	-1 + 8	13.70	18.33	+5 - 9	9.79	28.20	+4 - 11	62.45	36.21	-6 - 6
13	13.91	6.59	+2 + 6	13.62	18.70	+3 - 11	9.60	28.51	+1 - 12	62.18	36.40	-7 - 1
14	13.98	6.95	+5 + 2	13.53	19.08	0 - 11	9.40	28.82	-2 - 11	61.91	36.59	-7 + 3
15	14.04	7.32	+6 - 2	13.44	19.45	-3 - 9	9.20	29.13	-4 - 8	61.63	36.77	-6 + 7
16	14.10	7.69	+6 - 7	13.34	19.83	-5 - 6	8.99	29.44	-6 - 4	61.36	36.94	-4 + 10
17	14.15	8.06	+5 - 10	13.24	20.20	-6 - 2	8.78	29.74	-7 0	61.09	37.11	-1 + 11
18	14.20	8.43	+2 - 11	13.14	20.57	-7 + 3	8.57	30.04	-7 + 5	60.81	37.28	+2 + 10
19	14.24	8.80	-1 - 10	13.03	20.94	-6 + 7	8.36	30.33	-5 + 8	60.53	37.44	+5 + 7
20	14.27	9.17	-3 - 8	12.92	21.31	-4 + 10	8.14	30.62	-3 + 11	60.25	37.59	+8 + 3
21	14.30	9.55	-5 - 4	12.80	21.68	-1 + 11	7.92	30.91	0 + 11	59.97	37.74	+9 - 1
22	14.33	9.93	-7 0	12.68	22.04	+2 + 11	7.70	31.20	+4 + 10	59.69	37.88	+8 - 5
23	14.35	10.30	-7 + 4	12.55	22.40	+5 + 9	7.47	31.48	+7 + 6	59.41	38.02	+6 - 8
24	14.37	10.68	-5 + 8	12.42	22.76	+8 + 5	7.24	31.76	+9 + 2	59.12	38.16	+2 - 9
25	14.38	11.06	-3 + 11	12.28	23.12	+9 + 1	7.01	32.03	+9 - 2	58.84	38.29	-2 - 7
26	14.39	11.44	0 + 12	12.14	23.47	+9 - 4	6.78	32.30	+7 - 6	58.55	38.41	-5 - 3
27	14.39	11.82	+3 + 11	12.00	23.83	+6 - 7	6.54	32.56	+4 - 8	58.27	38.53	-7 + 1
28	14.39	12.21	+6 + 8	11.85	24.18	+3 - 9	6.30	32.82	0 - 8	57.98	38.65	-7 + 6
29	14.38	12.59	+8 + 3	11.70	24.53	-1 - 8	6.06	33.08	-3 - 6	57.69	38.76	-6 + 9
30	14.37	12.97	+9 - 2				5.82	33.33	-6 - 2	57.40	38.86	-3 + 10
31	14.35	13.36	+8 - 6				5.57	33.58	-8 + 3	57.11	38.96	+1 + 9
32	14.33	13.74	+5 - 9				5.32	33.82	-7 + 7			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-85° 23' 0"	12.424	-12.384	-85° 23' 10"	12.432	-12.391	-85° 23' 30"	12.446	-12.406
10	12.432	-12.391	20	12.439	-12.399	40	12.454	-12.414

$$\alpha_{1931.0} = 9^h 7^m 3^s.37$$

$$\delta_{1931.0} = -85^\circ 23' 21''.85$$

Sc) ζ Octantis $5^m.38$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	$9^h 6^m$	$85^\circ 23'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$	$9^h 6^m$	$85^\circ 23'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$	$9^h 6^m$	$85^\circ 23'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$	$9^h 6^m$	$85^\circ 23'$	$\begin{smallmatrix} \circ.oi \\ \circ.oi \end{smallmatrix}$
			in			in			in			in
1	57.11	38.96	+1 + 9	48.32	39.40	+6 - 7	41.28	35.14	0 - 11	37.20	27.12	-7 + 1
2	56.82	39.05	+4 + 5	48.05	39.33	+4 - 10	41.09	34.93	-3 - 9	37.14	26.82	-7 + 5
3	56.54	39.14	+6 0	47.79	39.25	+2 - 11	40.90	34.71	-5 - 6	37.08	26.52	-5 + 8
4	56.25	39.22	+7 - 5	47.52	39.17	-1 - 11	40.72	34.49	-7 - 1	37.02	26.23	-2 + 10
5	55.96	39.30	+6 - 9	47.26	39.08	-4 - 8	40.54	34.27	-7 + 3	36.97	25.93	+1 + 11
6	55.67	39.38	+3 - 11	47.00	38.99	-6 - 4	40.36	34.05	-6 + 7	36.93	25.63	+4 + 9
7	55.38	39.45	0 - 12	46.74	38.89	-7 0	40.19	33.82	-4 + 9	36.89	25.33	+7 + 6
8	55.09	39.51	-3 - 10	46.48	38.79	-7 + 4	40.02	33.59	-1 + 11	36.85	25.02	+9 + 2
9	54.80	39.57	-5 - 7	46.23	38.68	-5 + 8	39.86	33.35	+2 + 10	36.82	24.72	+9 - 2
10	54.51	39.62	-7 - 3	45.97	38.57	-3 + 10	39.70	33.11	+5 + 8	36.79	24.41	+7 - 6
11	54.22	39.67	-7 + 1	45.72	38.46	0 + 11	39.54	32.87	+8 + 4	36.77	24.11	+4 - 8
12	53.93	39.71	-7 + 5	45.47	38.34	+3 + 9	39.38	32.63	+9 0	36.75	23.80	0 - 8
13	53.65	39.75	-5 + 8	45.23	38.21	+6 + 6	39.23	32.38	+8 - 5	36.74	23.49	-3 - 6
14	53.36	39.78	-2 + 10	44.99	38.08	+8 + 2	39.08	32.13	+6 - 8	36.73	23.19	-6 - 2
15	53.07	39.80	+1 + 10	44.75	37.94	+8 - 2	38.94	31.87	+2 - 9	36.73	22.88	-8 + 2
16	52.78	39.82	+4 + 8	44.51	37.80	+7 - 6	38.80	31.61	-1 - 8	36.74	22.57	-7 + 6
17	52.50	39.83	+7 + 5	44.27	37.65	+5 - 9	38.67	31.35	-5 - 5	36.75	22.27	-5 + 9
18	52.21	39.84	+8 0	44.04	37.50	+1 - 9	38.54	31.08	-7 - 1	36.76	21.96	-2 + 9
19	51.93	39.84	+8 - 4	43.81	37.34	-3 - 7	38.42	30.81	-8 + 4	36.78	21.65	+2 + 7
20	51.64	39.84	+7 - 7	43.58	37.18	-6 - 3	38.30	30.54	-7 + 8	36.80	21.35	+5 + 3
21	51.35	39.83	+3 - 9	43.36	37.02	-8 + 1	38.18	30.26	-4 + 10	36.82	21.04	+6 - 2
22	51.07	39.82	-1 - 8	43.14	36.85	-7 + 6	38.07	29.99	0 + 9	36.85	20.73	+6 - 7
23	50.79	39.80	-4 - 5	42.92	36.68	-5 + 9	37.96	29.71	+3 + 6	36.89	20.43	+5 - 10
24	50.51	39.77	-7 - 1	42.70	36.50	-2 + 10	37.86	29.43	+6 + 1	36.93	20.13	+2 - 12
25	50.24	39.74	-8 + 4	42.49	36.32	+1 + 8	37.76	29.15	+7 - 4	36.98	19.83	-1 - 11
26	49.96	39.71	-7 + 8	42.28	36.13	+4 + 5	37.67	28.86	+6 - 8	37.03	19.53	-4 - 9
27	49.68	39.67	-4 + 10	42.07	35.94	+6 0	37.58	28.58	+4 - 11	37.09	19.23	-6 - 5
28	49.41	39.62	-1 + 10	41.87	35.75	+7 - 5	37.49	28.29	+1 - 11	37.15	18.93	-7 - 1
29	49.13	39.57	+3 + 7	41.67	35.55	+5 - 9	37.41	28.00	-2 - 10	37.22	18.63	-7 + 4
30	48.86	39.52	+5 + 3	41.47	35.35	+3 - 11	37.33	27.71	-5 - 7	37.29	18.33	-6 + 7
31	48.59	39.46	+7 - 2	41.28	35.14	0 - 11	37.26	27.41	-6 - 3	37.37	18.04	-3 + 10
32	48.32	39.40	+6 - 7				37.20	27.12	-7 + 1	37.45	17.75	0 + 11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$-85^\circ 23' 10''$	12.412	-12.391	$-85^\circ 23' 20''$	12.439	-12.399	$-85^\circ 23' 30''$	12.446	-12.406
20	12.439	-12.399	30	12.446	-12.406	40	12.454	-12.414

$$\alpha_{1931.0} = 9^h 7^m 3^s.37$$

$$\delta_{1931.0} = -85^\circ 23' 21''.85$$

*) Tag der doppelten unteren Kulmination: Aug. 9

Sc) ζ Octantis $5^m.38$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	« Glieder	AR.	Dekl.	« Glieder	AR.	Dekl.	« Glieder	AR.	Dekl.	« Glieder
	$9^h 6^m$	$85^\circ 23'$	$0.01 \begin{smallmatrix} 0.01 \\ \text{in} \end{smallmatrix}$	$9^h 6^m$	$85^\circ 23'$	$0.01 \begin{smallmatrix} 0.01 \\ \text{in} \end{smallmatrix}$	$9^h 6^m$	$85^\circ 23'$	$0.01 \begin{smallmatrix} 0.01 \\ \text{in} \end{smallmatrix}$	$9^h 6^m$	$85^\circ 23'$	$0.01 \begin{smallmatrix} 0.01 \\ \text{in} \end{smallmatrix}$
1	37.45	17.75	0 + 11	41.86	10.33	+7 + 5	49.44	7.18	+5 - 8	57.26	9.92	-4 - 4
2	37.53	17.46	+3 + 10	42.07	10.14	+9 + 1	49.70	7.18	+1 - 8	57.50	10.11	-7 0
3	37.62	17.17	+6 + 7	42.28	9.96	+8 - 3	49.97	7.18	-2 - 6	57.73	10.30	-7 + 5
4	37.71	16.89	+8 + 3	42.49	9.79	+7 - 6	50.24	7.19	-5 - 2	57.97	10.50	-6 + 9
5	37.81	16.60	+9 - 1	42.71	9.62	+4 - 8	50.51	7.21	-7 + 3	58.20	10.71	-3 + 11
6	37.91	16.32	+8 - 5	42.93	9.45	0 - 7	50.78	7.23	-7 + 7	58.43	10.92	0 + 10
7	38.02	16.04	+6 - 7	43.16	9.29	-4 - 4	51.05	7.26	-5 + 10	58.66	11.14	+4 + 7
8	38.13	15.76	+2 - 8	43.39	9.13	-6 0	51.32	7.30	-2 + 11	58.88	11.36	+6 + 2
9	38.25	15.49	-2 - 7	43.62	8.98	-7 + 4	51.59	7.34	+2 + 9	59.10	11.59	+7 - 3
10	38.37	15.22	-5 - 3	43.85	8.84	-7 + 8	51.86	7.39	+5 + 5	59.31	11.83	+6 - 8
11	38.50	14.95	-7 + 1	44.08	8.70	-4 + 10	52.12	7.44	+6 0	59.52	12.07	+4 - 11
12	38.63	14.68	-8 + 5	44.32	8.57	-1 + 10	52.39	7.50	+7 - 6	59.73	12.31	+1 - 12
13	38.76	14.42	-6 + 9	44.56	8.44	+3 + 7	52.66	7.57	+5 - 10	59.94	12.56	-2 - 11
14	38.90	14.16	-3 + 10	44.80	8.32	+5 + 2	52.93	7.65	+3 - 12	60.14	12.82	-5 - 8
15	39.04	13.90	0 + 8	45.04	8.20	+6 - 3	53.19	7.73	-1 - 12	60.34	13.08	-7 - 3
16	39.19	13.65	+4 + 5	45.28	8.09	+6 - 8	53.46	7.82	-4 - 10	60.53	13.34	-8 + 1
17	39.34	13.40	+6 0	45.53	7.99	+4 - 11	53.73	7.91	-6 - 6	60.72	13.61	-7 + 5
18	39.50	13.15	+7 - 5	45.78	7.89	+1 - 13	53.99	8.01	-8 - 2	60.91	13.88	-5 + 8
19	39.66	12.91	+5 - 9	46.03	7.80	-2 - 11	54.25	8.12	-8 + 2	61.09	14.16	-2 + 10
20	39.82	12.67	+3 - 12	46.28	7.72	-5 - 9	54.51	8.24	-6 + 6	61.27	14.44	+1 + 9
21	39.99	12.44	0 - 12	46.53	7.64	-7 - 4	54.76	8.36	-4 + 9	61.45	14.73	+4 + 8
22	40.16	12.21	-3 - 10	46.79	7.57	-8 0	55.02	8.49	-1 + 10	61.62	15.02	+6 + 5
23	40.34	11.98	-6 - 7	47.05	7.50	-7 + 4	55.28	8.62	+2 + 10	61.79	15.32	+8 + 1
24	40.52	11.76	-7 - 3	47.31	7.44	-6 + 7	55.53	8.76	+5 + 7	61.95	15.62	+8 - 4
25	40.70	11.54	-8 + 2	47.57	7.38	-3 + 10	55.79	8.91	+7 + 3	62.11	15.92	+7 - 7
26	40.88	11.33	-7 + 6	47.83	7.33	0 + 10	56.04	9.06	+8 - 1	62.27	16.23	+4 - 9
27	41.07	11.12	-5 + 9	48.10	7.29	+3 + 8	56.29	9.22	+8 - 5	62.42	16.54	0 - 8
28	41.26	10.91	-2 + 10	48.37	7.25	+6 + 6	56.54	9.38	+6 - 8	62.57	16.86	-3 - 6
29	41.46	10.71	+1 + 10	48.63	7.22	+8 + 2	56.78	9.55	+3 - 9	62.71	17.18	-6 - 2
30	41.66	10.52	+5 + 8	48.90	7.20	+8 - 2	57.02	9.73	-1 - 7	62.85	17.50	-7 + 3
31	41.86	10.33	+7 + 5	49.17	7.19	+7 - 6	57.26	9.92	-4 - 4	62.98	17.83	-7 + 7
32				49.44	7.18	+5 - 8				63.11	18.16	-5 + 10

δ	sec δ	tg δ	δ	sec δ	tg δ
$-85^\circ 23' 0''$	12.424	-12.384	$-85^\circ 23' 10''$	12.432	-12.391
10	12.432	-12.391	20	12.439	-12.399

$$\alpha_{1931.0} = 9^h 7^m 3^s.37$$

$$\delta_{1931.0} = -85^\circ 23' 21''.85$$

Sd) † Octantis 5^m.38

Tag	Januar			Februar			März			April		
	AR	Dekl.	α Glieder	AR	Dekl.	α Glieder	AR	Dekl.	α Glieder	AR	Dekl.	α Glieder
	12 ^h 47 ^m	84° 44'	α. α. in	12 ^h 47 ^m	84° 44'	α. α. in	12 ^h 47 ^m	84° 44'	α. α. in	12 ^h 47 ^m	84° 45'	α. α. in
1	24.88	36.31	0 + 12	32.44	41.78	+8 - 1	37.45	50.55	+7 - 3	40.00	2.32	-6 - 6
2	25.14	36.41	+3 + 10	32.66	42.04	+6 - 6	37.58	50.91	+4 - 7	40.03	2.71	-8 - 3
3	25.40	36.50	+6 + 6	32.87	42.30	+3 - 9	37.71	51.27	0 - 9	40.05	3.10	-8 + 1
4	25.65	36.60	+8 + 1	33.08	42.57	-1 - 10	37.84	51.63	-3 - 8	40.07 40.08	3.48 3.87	-6 + 5 -3 + 7
5	25.91	36.71	+7 - 4	33.29	42.85	-4 - 8	37.96	52.00	-6 - 6	40.09	4.26	+1 + 7
6	26.17	36.83	+5 - 8	33.50	43.13	-7 - 5	38.08	52.36	-8 - 2	40.10	4.65	+4 + 5
7	26.43	36.95	+2 - 10	33.70	43.41	-8 - 1	38.20	52.73	-7 + 2	40.11	5.03	+7 + 2
8	26.68	37.07	-2 - 10	33.90	43.69	-7 + 3	38.32	53.10	-5 + 5	40.11	5.42	+9 - 2
9	26.94	37.20	-6 - 7	34.10	43.98	-4 + 6	38.43	53.47	-2 + 7	40.11	5.80	+9 - 6
10	27.19	37.34	-8 - 3	34.29	44.28	0 + 7	38.54	53.84	+2 + 6	40.10	6.19	+7 - 9
11	27.45	37.48	-8 + 1	34.48	44.58	+4 + 5	38.64	54.22	+6 + 4	40.09	6.58	+4 - 10
12	27.70	37.63	-6 + 5	34.67	44.88	+7 + 3	38.74	54.60	+8 0	40.08	6.96	+1 - 10
13	27.95	37.78	-3 + 7	34.86	45.19	+8 - 1	38.84	54.98	+9 - 4	40.06	7.34	-3 - 8
14	28.20	37.94	+1 + 7	35.04	45.50	+9 - 5	38.93	55.36	+8 - 7	40.04	7.72	-5 - 5
15	28.45	38.11	+5 + 5	35.22	45.82	+7 - 8	39.02	55.74	+6 - 9	40.02	8.09	-7 - 1
16	28.70	38.28	+7 + 2	35.40	46.14	+5 - 9	39.11	56.12	+3 - 10	39.99	8.47	-8 + 3
17	28.95	38.46	+8 - 2	35.58	46.46	+1 - 10	39.19	56.50	0 - 9	39.96	8.84	-7 + 7
18	29.19	38.64	+8 - 5	35.75	46.78	-2 - 8	39.27	56.88	-4 - 7	39.93	9.21	-5 + 10
19	29.43	38.83	+6 - 8	35.92	47.11	-5 - 6	39.35	57.27	-6 - 4	39.89	9.58	-2 + 11
20	29.68	39.03	+3 - 9	36.09	47.44	-7 - 2	39.42	57.66	-8 0	39.85	9.95	+1 + 11
21	29.92	39.23	0 - 9	36.26	47.77	-8 + 3	39.49	58.04	-8 + 5	39.81	10.32	+5 + 9
22	30.16	39.44	-3 - 7	36.42	48.11	-8 + 7	39.55	58.43	-7 + 9	39.76	10.68	+7 + 5
23	30.40	39.65	-6 - 4	36.58	48.45	-6 + 10	39.61	58.82	-4 + 11	39.71	11.04	+7 0
24	30.63	39.86	-8 0	36.73	48.79	-3 + 12	39.67	59.21	-1 + 12	39.66	11.40	+6 - 4
25	30.86	40.08	-8 + 4	36.88	49.14	0 + 12	39.72	59.59	+3 + 11	39.60	11.76	+3 - 7
26	31.09	40.31	-7 + 9	37.03	49.49	+4 + 10	39.77	59.98	+6 + 8	39.54	12.12	0 - 8
27	31.32	40.54	-5 + 11	37.17	49.84	+6 + 6	39.82	60.37	+7 + 3	39.48	12.47	-4 - 7
28	31.55	40.78	-2 + 13	37.31	50.19	+7 + 1	39.86	60.76	+7 - 1	39.41	12.82	-7 - 4
29	31.78	41.02	+2 + 12	37.45	50.55	+7 - 3	39.90	61.15	+5 - 6	39.34	13.17	-8 0
30	32.00	41.27	+5 + 9				39.94	61.54	+2 - 8	39.26	13.52	-8 + 4
31	32.22	41.52	+7 + 4				39.97	61.93	-2 - 8	39.18	13.87	-5 + 7
32	32.44	41.78	+8 - 1				40.00	62.32	-6 - 6			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-84° 44' 30"	10.911	-10.866	-84° 44' 50"	10.923	-10.877	-84° 45' 10"	10.935	-10.889
40	10.917	-10.871	60	10.929	-10.883	20	10.940	-10.895

$$\alpha_{1931.0} = 12^h 47^m 31^s.97$$

$$\delta_{1931.0} = -84^\circ 44' 56''.87$$

Sd) Octantis 5^m.38

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl'ieder	AR.	Dekl.	Gl'ieder	AR.	Dekl.	Gl'ieder	AR.	Dekl.	Gl'ieder
	^h ^m 12 47	[°] ['] 84° 45'	[°] ['] 0.01 0.01	^h ^m 12 47	[°] ['] 84° 45'	[°] ['] 0.01 0.01	^h ^m 12 47	[°] ['] 84° 45'	[°] ['] 0.01 0.01	^h ^m 12 47	[°] ['] 84° 45'	[°] ['] 0.01 0.01
1	39.18	13.87	—5 + 7	35.35	22.90	+8 + 2	29.62	27.55	+7 — 8	23.10	27.14	—4 — 7
2	39.10	14.21	—1 + 8	35.18	23.12	+9 — 3	29.41	27.62	+4 — 10	22.90	27.04	—7 — 3
3	39.02	14.55	+3 + 7	35.01	23.34	+8 — 6	29.20	27.69	+1 — 10	22.70	26.93	—8 + 1
4	38.93	14.88	+6 + 4	34.84	23.56	+6 — 9	28.99	27.75	—2 — 9	22.50	26.82	—8 + 5
5	38.84	15.21	+8 0	34.67	23.78	+3 — 10	28.78	27.81	—5 — 6	22.31	26.70	—6 + 9
6	38.75	15.54	+9 — 5	34.50	23.99	0 — 10	28.57	27.86	—7 — 2	22.12	26.57	—4 + 11
7	38.66	15.87	+8 — 8	34.33	24.19	—3 — 8	28.35	27.90	—8 + 3	21.93	26.44	—1 + 12
8	38.56	16.20	+5 — 10	34.15	24.39	—6 — 4	28.14	27.94	—7 + 7	21.74	26.31	+3 + 11
9	38.46	16.52	+2 — 11	33.97	24.59	—8 0	27.93	27.97	—5 + 10	21.55	26.17	+6 + 7
10	38.36	16.84	—1 — 9	33.79	24.78	—8 + 4	27.72	28.00	—2 + 11	21.36	26.03	+7 + 3
11	38.25	17.16	—4 — 7	33.61	24.96	—7 + 8	27.50	28.02	+1 + 11	21.18	25.88	+7 — 2
12	38.14	17.47	—7 — 3	33.42	25.14	—4 + 10	27.29	28.04	+4 + 9	21.00	25.72	+5 — 6
13	38.03	17.78	—8 + 1	33.24	25.32	—1 + 11	27.07	28.05	+7 + 5	20.82	25.56	+2 — 8
14	37.91	18.08	—8 + 5	33.05	25.49	+2 + 10	26.86	28.05	+8 0	20.64	25.40	—2 — 9
15	37.79	18.38	—6 + 9	32.86	25.65	+6 + 7	26.65	28.05	+7 — 4	20.47	25.23	—5 — 7
16	37.67	18.68	—3 + 11	32.67	25.81	+7 + 3	26.44	28.04	+4 — 8	20.29	25.05	—8 — 3
17	37.54	18.97	0 + 11	32.48	25.97	+8 — 2	26.22	28.03	+1 — 9	20.12	24.87	—8 + 1
18	37.41	19.26	+4 + 9	32.28	26.12	+6 — 6	26.01	28.01	—3 — 9	19.95	24.69	—7 + 5
19	37.28	19.55	+6 + 6	32.08	26.26	+3 — 9	25.80	27.98	—6 — 6	19.78	24.50	—4 + 7
20	37.15	19.83	+8 + 1	31.88	26.40	—1 — 9	25.58	27.95	—8 — 2	19.62	24.31	+1 + 7
21	37.02	20.11	+7 — 3	31.68	26.53	—5 — 7	25.37	27.92	—8 + 3	19.46	24.11	+5 + 5
22	36.88	20.39	+5 — 7	31.48	26.65	—7 — 4	25.16	27.88	—6 + 6	19.30	23.91	+8 + 2
23	36.74	20.66	+1 — 9	31.28	26.77	—8 + 1	24.95	27.83	—2 + 8	19.14	23.71	+9 — 2
24	36.59	20.92	—3 — 8	31.07	26.89	—7 + 5	24.74	27.77	+2 + 7	18.99	23.50	+9 — 6
25	36.44	21.18	—6 — 5	30.87	27.00	—5 + 8	24.53	27.71	+6 + 5	18.84	23.29	+7 — 9
26	36.29	21.44	—8 — 1	30.67	27.10	—1 + 8	24.33	27.65	+8 + 1	18.69	23.07	+4 — 11
27	36.14	21.70	—8 + 3	30.46	27.20	+3 + 7	24.12	27.58	+9 — 3	18.55	22.85	0 — 10
28	35.99	21.95	—6 + 6	30.25	27.30	+7 + 4	23.91	27.50	+8 — 7	18.41	22.62	—3 — 8
29	35.83	22.19	—3 + 8	30.04	27.39	+8 — 1	23.71	27.42	+6 — 10	18.27	22.39	—6 — 5
30	35.67	22.43	+1 + 8	29.83	27.47	+9 — 5	23.50	27.33	+2 — 10	18.14	22.16	—7 — 1
31	35.51	22.67	+5 + 6	29.62	27.55	+7 — 8	23.30	27.24	—1 — 9	18.01	21.92	—8 + 3
32	35.35	22.90	+8 + 2				23.10	27.14	—4 — 7	17.88	21.68	—7 + 7

δ	sec δ	tg δ	δ	sec δ	tg δ
—84° 45' 10"	10.935	—10.889	—84° 45' 20"	10.940	—10.895
20	10.940	—10.895	30	10.946	—10.900

$$\alpha_{1931.0} = 12^h 47^m 31^s.97$$

$$\delta_{1931.0} = -84^\circ 44' 56''.87$$

Sd) : Octantis 5^m.38

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	12 ^h 47 ^m	84° 45'	0.01 | 0.01	12 ^h 47 ^m	84° 45'	0.01 | 0.01	12 ^h 47 ^m	84° 44'	0.01 | 0.01	12 ^h 47 ^m	84° 44'	0.01 | 0.01
1	17.88	21.68	-7 + 7	15.79	13.25	0 + 11	17.77	64.30	+7 0	23.36	58.63	0 - 8
2	17.75	21.43	-5 + 10	15.79	12.95	+4 + 10	17.90	64.05	+5 - 4	23.59	58.52	-4 - 7
3	17.63	21.18	-2 + 11	15.79	12.65	+6 + 7	18.04	63.80	+2 - 7	23.82	58.42	-7 - 4
4	17.51	20.93	+2 + 11	15.80	12.34	+7 + 3	18.18	63.56	-1 - 7	24.06	58.32	-9 0
5	17.40	20.68	+5 + 9	15.81	12.04	+7 - 2	18.33	63.32	-5 - 6	24.30	58.23	-8 + 4
6	17.29	20.42	+7 + 5	15.82	11.73	+4 - 6	18.48	63.08	-8 - 2	24.54	58.15	-6 + 8
7	17.18	20.16	+7 + 1	15.84	11.43	+1 - 7	18.63	62.85	-9 + 2	24.78	58.07	-2 + 9
8	17.08	19.90	+6 - 4	15.86	11.12	-3 - 7	18.79	62.62	-8 + 6	25.02	58.00	+2 + 8
9	16.98	19.63	+3 - 7	15.89	10.82	-6 - 5	18.95	62.40	-5 + 8	25.27	57.94	+6 + 5
10	16.88	19.36	-1 - 8	15.92	10.52	-8 - 1	19.12	62.18	-1 + 9	25.52	57.88	+8 + 1
11	16.79	19.09	-4 - 7	15.96	10.22	-8 + 3	19.29	61.96	+3 + 7	25.77	57.83	+9 - 4
12	16.70	18.82	-7 - 4	16.00	9.92	-6 + 6	19.46	61.75	+7 + 3	26.02	57.78	+8 - 8
13	16.61	18.54	-8 0	16.05	9.62	-3 + 8	19.64	61.54	+9 - 2	26.27	57.74	+6 - 11
14	16.53	18.26	-7 + 4	16.10	9.33	+1 + 7	19.82	61.33	+9 - 6	26.52	57.70	+2 - 12
15	16.45	17.98	-5 + 6	16.16	9.03	+5 + 5	20.00	61.13	+7 - 10	26.78	57.67	-1 - 10
16	16.38	17.70	-1 + 7	16.22	8.73	+8 + 1	20.19	60.93	+4 - 12	27.04	57.65	-4 - 8
17	16.31	17.41	+3 + 6	16.28	8.44	+9 - 4	20.38	60.74	+1 - 12	27.30	57.63	-7 - 4
18	16.24	17.12	+7 + 3	16.35	8.15	+9 - 8	20.57	60.56	-2 - 10	27.56	57.62	-7 0
19	16.18	16.83	+9 - 1	16.42	7.86	+6 - 11	20.77	60.38	-5 - 7	27.82	57.62	-7 + 4
20	16.13	16.54	+9 - 5	16.50	7.57	+3 - 12	20.97	60.20	-7 - 2	28.08	57.62	-5 + 8
21	16.08	16.24	+8 - 9	16.58	7.29	0 - 11	21.17	60.03	-7 + 2	28.34	57.63	-3 + 10
22	16.03	15.95	+5 - 11	16.67	7.01	-4 - 8	21.38	59.87	-7 + 6	28.60	57.65	0 + 10
23	15.98	15.65	+2 - 11	16.76	6.73	-6 - 5	21.59	59.71	-5 + 9	28.86	57.67	+3 + 9
24	15.94	15.36	-2 - 10	16.86	6.45	-7 - 1	21.80	59.55	-2 + 10	29.13	57.70	+6 + 6
25	15.91	15.06	-5 - 7	16.96	6.17	-7 + 4	22.02	59.40	+1 + 10	29.39	57.74	+7 + 2
26	15.88	14.76	-7 - 3	17.06	5.89	-6 + 7	22.24	59.26	+5 + 8	29.65	57.78	+7 - 2
27	15.85	14.46	-8 + 1	17.17	5.62	-4 + 10	22.46	59.12	+7 + 5	29.91	57.83	+5 - 6
28	15.83	14.16	-7 + 6	17.28	5.35	-1 + 11	22.68	58.99	+7 + 1	30.17	57.88	+2 - 8
29	15.81	13.86	-6 + 9	17.40	5.08	+3 + 10	22.90	58.86	+6 - 3	30.44	57.94	-2 - 8
30	15.80	13.55	-3 + 11	17.52	4.82	+5 + 8	23.13	58.74	+4 - 7	30.70	58.01	-6 - 6
31	15.79	13.25	0 + 11	17.64	4.56	+7 + 4	23.36	58.63	0 - 8	30.96	58.08	-8 - 2
32				17.77	4.30	+7 0				31.23	58.16	-9 + 2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-84° 44' 50"	10.923	-10.877	-84° 45' 0"	10.929	-10.883	-84° 45' 20"	10.940	-10.895
60	10.929	-10.883	10	10.935	-10.889	30	10.946	-10.900

$$\alpha_{1931.0} = 12^h 47^m 31^s.97 \quad \delta_{1931.0} = -84^\circ 44' 56''.87$$

*) Tag der doppelten unteren Kulmination: Okt. 4

Se) Octantis 20 G. 6^m.52

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	14 ^h 51 ^m	87° 52'	0.01 | 0.01	14 ^h 52 ^m	87° 52'	0.01 | 0.01	14 ^h 52 ^m	87° 52'	0.01 | 0.01	14 ^h 52 ^m	87° 52'	0.01 | 0.01
1	51.43	5.80	— 9 + 12	11.70	5.23	+ 17 + 4	29.92	9.29	+ 16 + 1	46.01	17.72	— 8 — 10
2	52.03	5.70	0 + 12	12.38	5.31	+ 17 — 1	30.53	9.50	+ 14 — 5	46.42	18.04	— 15 — 8
3	52.64	5.60	+ 9 + 10	13.06	5.39	+ 13 — 7	31.13	9.72	+ 7 — 9	46.82	18.37	— 18 — 4
4	53.25	5.51	+ 16 + 6	13.73	5.47	+ 5 — 10	31.72	9.94	— 1 — 11	47.22	18.69	— 17 + 1
5	53.87	5.42	+ 19 + 1	14.40	5.56	— 4 — 11	32.31	10.17	— 10 — 10	47.61	19.02	— 12 + 5
6	54.49	5.34	+ 17 — 5	15.08	5.66	— 11 — 9	32.90	10.40	— 16 — 7	47.99	19.35	— 3 + 7
7	55.12	5.26	+ 11 — 9	15.75	5.76	— 16 — 6	33.48	10.64	— 17 — 3	48.36	19.68	+ 6 + 8
8	55.75	5.19	+ 2 — 11	16.42	5.86	— 16 — 1	34.05	10.88	— 14 + 2	48.72	20.02	+ 15 + 6
9	56.39	5.12	— 7 — 11	17.09	5.97	— 12 + 3	34.62	11.13	— 8 + 6	49.08	20.35	+ 21 + 3
10	57.03	5.06	— 14 — 8	17.76	6.09	— 5 + 6	35.19	11.38	+ 1 + 7	49.43	20.69	+ 23 0
11	57.67	5.01	— 17 — 4	18.43	6.21	+ 4 + 8	35.75	11.63	+ 10 + 7	49.78	21.03	+ 21 — 4
12	58.32	4.97	— 15 + 1	19.09	6.34	+ 12 + 7	36.30	11.89	+ 17 + 5	50.11	21.37	+ 16 — 7
13	58.97	4.93	— 10 + 5	19.75	6.47	+ 19 + 5	36.85	12.15	+ 21 + 2	50.43	21.72	+ 9 — 9
14	59.63	4.89	— 2 + 7	20.41	6.61	+ 21 + 1	37.39	12.41	+ 22 — 2	50.75	22.06	0 — 10
15	60.29	4.86	+ 7 + 8	21.07	6.76	+ 20 — 3	37.92	12.68	+ 19 — 5	51.06	22.41	— 8 — 9
16	60.95	4.84	+ 15 + 7	21.72	6.91	+ 16 — 6	38.45	12.95	+ 13 — 8	51.36	22.76	— 15 — 6
17	61.61	4.82	+ 19 + 4	22.37	7.06	+ 10 — 8	38.97	13.23	+ 5 — 9	51.65	23.10	— 19 — 2
18	62.27	4.80	+ 21 0	23.02	7.22	+ 1 — 9	39.48	13.51	— 3 — 9	51.93	23.45	— 20 + 2
19	62.93	4.79	+ 19 — 4	23.67	7.38	— 7 — 9	39.99	13.79	— 11 — 8	52.20	23.80	— 18 + 6
20	63.60	4.79	+ 13 — 7	24.31	7.55	— 14 — 6	40.50	14.07	— 17 — 5	52.47	24.15	— 12 + 10
21	64.27	4.79	+ 6 — 9	24.95	7.73	— 19 — 3	41.00	14.36	— 20 0	52.73	24.51	— 5 + 12
22	64.94	4.80	— 2 — 9	25.58	7.91	— 22 + 2	41.49	14.65	— 20 + 4	52.98	24.87	+ 4 + 12
23	65.62	4.82	— 10 — 8	26.21	8.10	— 20 + 6	41.97	14.94	— 17 + 8	53.22	25.22	+ 11 + 9
24	66.29	4.84	— 17 — 5	26.84	8.29	— 15 + 10	42.45	15.24	— 10 + 11	53.45	25.58	+ 16 + 5
25	66.97	4.87	— 21 — 1	27.46	8.48	— 8 + 12	42.92	15.54	— 2 + 12	53.67	25.94	+ 16 0
26	67.64	4.90	— 22 + 3	28.08	8.68	+ 1 + 12	43.38	15.84	+ 6 + 11	53.88	26.30	+ 12 — 5
27	68.32	4.94	— 19 + 8	28.70	8.88	+ 9 + 10	43.83	16.15	+ 13 + 8	54.08	26.65	+ 5 — 9
28	68.99	4.99	— 13 + 11	29.31	9.08	+ 15 + 6	44.28	16.46	+ 16 + 3	54.27	27.01	— 4 — 10
29	69.67	5.04	— 4 + 13	29.92	9.29	+ 16 + 1	44.72	16.77	+ 15 — 2	54.46	27.37	— 13 — 8
30	70.34	5.10	+ 5 + 12				45.16	17.08	+ 9 — 7	54.63	27.73	— 18 — 5
31	71.02	5.16	+ 13 + 8				45.59	17.40	+ 1 — 10	54.80	28.09	— 19 — 1
32	71.70	5.23	+ 17 + 4				46.01	17.72	— 8 — 10			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
— 87° 52' 0"	26.864	— 26.845	— 87° 52' 10"	26.899	— 26.880	— 87° 52' 20"	26.934	— 26.915
10	26.899	— 26.880	20	26.934	— 26.915	30	26.969	— 26.950

$$\alpha_{1931.0} = 14^h 52^m 25^s.29$$

$$\delta_{1931.0} = -87^\circ 52' 18''.70$$

Se) Octantis 20 G. 6^m.52

Tag	Mai			Juni			Juli			August		
	AR	Dekl.	Gl. Glieder	AR	Dekl.	Gl. Glieder	AR	Dekl.	Gl. Glieder	AR	Dekl.	Gl. Glieder
	^h ^m 14 52	[°] 87° 52'	[°] ['] 0.01 | 0.01	^h ^m 14 52	[°] 87° 52'	[°] ['] 0.01 | 0.01	^h ^m 14 52	[°] 87° 52'	[°] ['] 0.01 | 0.01	^h ^m 14 52	[°] 87° 52'	[°] ['] 0.01 | 0.01
1	54.80	28.09	-19 - 1	55.26	39.30	+15 + 7	47.47	47.76	+21 - 3	33.23	52.44	- 4 -10
2	54.95	28.45	-15 + 4	55.12	39.62	+20 + 3	47.09	47.99	+16 - 7	32.71	52.50	-12 - 7
3	55.10	28.81	- 8 + 7	54.98	39.94	+22 - 1	46.70	48.21	+ 9 - 9	32.19	52.56	-17 - 4
4	55.24	29.17	+ 1 + 8	54.82	40.26	+20 - 5	46.31	48.43	+ 1 -10	31.66	52.62	-20 0
5	55.37	29.53	+11 + 8	54.66	40.58	+14 - 8	45.91	48.64	- 7 - 9	31.14	52.67	-20 + 4
6	{55.49 55.60	29.89 30.25	+18 +5 +22 +1	54.48	40.90	+ 6 -10	45.51	48.85	-14 - 6	30.61	52.71	-16 + 8
7	55.70	30.61	+22 - 3	54.30	41.22	- 2 -10	45.10	49.05	-19 - 3	30.08	52.74	-10 +11
8	55.79	30.97	+18 - 6	54.11	41.53	-10 - 8	44.68	49.25	-20 + 2	29.55	52.77	- 1 +12
9	55.88	31.33	+12 - 9	53.91	41.84	-16 - 5	44.26	49.44	-18 + 6	29.02	52.80	+ 7 +11
10	55.96	31.69	+ 3 -10	53.70	42.15	-19 - 1	43.83	49.63	-13 +10	28.48	52.82	+13 + 8
11	56.02	32.05	- 5 - 9	53.48	42.45	-20 + 3	43.40	49.81	- 6 +12	27.95	52.83	+16 + 3
12	56.07	32.41	-12 - 7	53.25	42.75	-17 + 7	42.96	49.99	+ 3 +12	27.41	52.84	+15 - 2
13	56.12	32.77	-18 - 4	53.02	43.05	-10 +10	42.51	50.16	+11 + 9	26.88	52.84	+10 - 7
14	56.16	33.12	-20 0	52.78	43.34	- 2 +12	42.06	50.33	+16 + 5	26.35	52.84	+ 2 -10
15	56.19	33.47	-19 + 5	52.53	43.63	+ 6 +11	41.61	50.49	+17 0	25.81	52.83	- 6 -10
16	56.21	33.83	-14 + 8	52.27	43.92	+13 + 8	41.15	50.65	+15 - 5	25.28	52.81	-14 - 8
17	56.22	34.18	- 7 +11	52.01	44.20	+17 + 3	40.68	50.80	+ 8 - 9	24.74	52.79	-17 - 4
18	56.22	34.53	+ 1 +12	51.73	44.48	+17 - 2	40.21	50.95	- 1 -11	24.21	52.76	-17 0
19	56.21	34.88	+ 9 +10	51.45	44.75	+12 - 7	39.74	51.09	- 9 -10	23.68	52.73	-12 + 5
20	56.20	35.23	+15 + 6	51.16	45.02	+ 4 -10	39.26	51.22	-16 - 7	23.15	52.69	- 3 + 8
21	56.17	35.58	+17 + 1	50.86	45.29	- 5 -10	38.78	51.35	-18 - 2	22.62	52.64	+ 6 + 8
22	56.13	35.93	+15 - 4	50.55	45.55	-13 - 8	38.29	51.48	-16 + 2	22.09	52.59	+15 + 7
23	56.08	36.27	+ 9 - 8	50.24	45.81	-18 - 5	37.80	51.60	- 9 + 6	21.57	52.53	+21 + 4
24	56.03	36.62	0 -10	49.92	46.07	-19 0	37.30	51.71	0 + 8	21.04	52.47	+23 0
25	55.97	36.96	- 9 - 9	49.59	46.32	-15 + 5	36.80	51.82	+ 9 + 8	20.52	52.40	+21 - 5
26	55.89	37.30	-16 - 7	49.25	46.57	- 7 + 8	36.30	51.93	+17 + 6	20.00	52.33	+15 - 8
27	55.81	37.64	-19 - 2	48.91	46.82	+ 3 + 9	35.80	52.03	+21 + 2	19.48	52.25	+ 8 -10
28	55.72	37.97	-18 + 2	48.56	47.06	+12 + 8	35.29	52.12	+22 - 2	18.97	52.16	- 1 -10
29	55.62	38.31	-12 + 6	48.20	47.30	+18 + 5	34.78	52.21	+19 - 6	18.46	52.07	-10 - 9
30	55.51	38.64	- 3 + 8	47.84	47.53	+22 + 1	34.27	52.29	+12 - 9	17.95	51.97	-15 - 6
31	55.39	38.97	+ 7 + 9	47.47	47.76	+21 - 3	33.75	52.37	+ 4 -10	17.45	51.86	-19 - 2
32	55.26	39.30	+15 + 7				33.23	52.44	- 4 -10	16.95	51.75	-20 + 3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-87° 52' 20"	26.934	-26.915	-87° 52' 30"	26.969	-26.950	-87° 52' 50"	27.039	-27.021
30	26.969	-26.950	40	27.004	-26.986	60	27.075	-27.057

$$\alpha_{1931.0} = 14^h 52^m 25^s.29$$

$$\delta_{1931.0} = -87^\circ 52' 18''.70$$

Se) Octantis 20 G. 6^m.52

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	14 ^h 52 ^m	87° 52'	in α.oi | α.oi	14 ^h 51 ^m	87° 52'	in α.oi | α.oi	14 ^h 51 ^m	87° 52'	in α.oi | α.oi	14 ^h 52 ^m	87° 52'	in α.oi | α.oi
1	16.95	51.75	-20 + 3	64.43	46.16	-7 + 11	59.84	37.18	+15 + 4	5.72	28.41	+6 - 8
2	16.45	51.64	-17 + 7	64.13	45.91	+1 + 12	59.87	36.87	+15 - 1	6.08	28.15	-3 - 9
3	15.95	51.52	-12 + 10	63.84	45.65	+8 + 10	59.91	36.56	+10 - 5	6.46	27.90	-12 - 8
4	15.46	51.39	-5 + 12	63.56	45.39	+13 + 7	59.96	36.25	+2 - 8	6.85	27.65	-19 - 5
5	14.97	51.26	+3 + 12	63.28	45.13	+15 + 2	60.02	35.94	-7 - 9	7.24	27.41	-21 - 1
6	14.49	51.13	+10 + 9	63.02	44.86	+13 - 3	60.10	35.63	-15 - 7	7.64	27.17	-18 + 4
7	14.01	50.99	+15 + 5	62.76	44.59	+7 - 7	60.19	35.32	-20 - 4	8.06	26.93	-12 + 8
8	13.54	50.84	+15 0	62.51	44.32	-1 - 9	60.29	35.02	-20 + 1	8.48	26.70	-2 + 9
9	13.07	50.69	+11 - 5	62.27	44.05	-10 - 9	60.40	34.71	-16 + 5	8.91	26.47	+8 + 9
10	12.61	50.54	+4 - 9	62.05	43.77	-17 - 6	60.52	34.40	-7 + 8	9.35	26.25	+17 + 6
11	12.15	50.38	-4 - 10	61.84	43.49	-20 - 2	60.66	34.10	+3 + 9	9.80	26.03	+22 + 2
12	11.70	50.21	-12 - 9	61.63	43.21	-18 + 2	60.80	33.80	+13 + 7	10.26	25.82	+23 - 2
13	11.25	50.04	-17 - 6	61.44	42.92	-11 + 6	60.96	33.50	+20 + 4	10.73	25.61	+20 - 7
14	10.81	49.86	-18 - 1	61.26	42.63	-2 + 8	61.13	33.20	+24 0	11.21	25.40	+13 - 10
15	10.38	49.68	-15 + 3	61.08	42.34	+8 + 8	61.31	32.90	+22 - 5	11.69	25.20	+4 - 11
16	9.95	49.49	-7 + 7	60.92	42.05	+17 + 6	61.50	32.60	+17 - 8	12.18	25.00	-4 - 10
17	9.53	49.30	+3 + 8	60.77	41.75	+22 + 2	61.71	32.30	+10 - 11	12.68	24.81	-11 - 8
18	9.12	49.10	+12 + 7	60.63	41.45	+24 - 2	61.92	32.01	+1 - 11	13.19	24.62	-16 - 4
19	8.71	48.90	+19 + 5	60.50	41.15	+21 - 6	62.15	31.72	-7 - 10	13.71	24.44	-18 0
20	8.31	48.70	+23 + 1	60.38	40.85	+15 - 9	62.39	31.43	-13 - 7	14.23	24.26	-17 + 4
21	7.92	48.49	+23 - 4	60.27	40.55	+7 - 11	62.64	31.15	-17 - 3	14.76	24.09	-13 + 8
22	7.54	48.27	+18 - 7	60.17	40.25	-2 - 10	62.90	30.86	-18 + 1	15.30	23.92	-7 + 10
23	7.16	48.05	+11 - 10	60.09	39.95	-10 - 9	63.17	30.58	-16 + 6	15.85	23.76	+1 + 11
24	6.79	47.83	+3 - 11	60.01	39.64	-15 - 5	63.45	30.30	-11 + 9	16.40	23.60	+8 + 10
25	6.43	47.61	-6 - 10	59.95	39.33	-18 - 1	63.74	30.02	-4 + 11	16.96	23.45	+14 + 7
26	6.08	47.38	-13 - 7	59.90	39.03	-18 + 3	64.04	29.74	+4 + 11	17.53	23.30	+17 + 2
27	5.73	47.14	-17 - 3	59.86	38.72	-15 + 7	64.36	29.47	+11 + 9	18.10	23.16	+15 - 3
28	5.39	46.90	-19 + 1	59.84	38.41	-9 + 10	64.69	29.20	+15 + 5	18.68	23.03	+10 - 7
29	5.06	46.66	-18 + 5	59.82	38.10	-2 + 12	65.02	28.93	+16 0	19.27	22.90	+2 - 9
30	4.74	46.41	-14 + 9	59.81	37.79	+6 + 11	65.36	28.67	+13 - 4	19.86	22.77	-8 - 10
31	4.43	46.16	-7 + 11	59.82	37.48	+12 + 8	65.72	28.41	+6 - 8	20.46	22.65	-16 - 7
32				59.84	37.18	+15 + 4				21.06	22.54	-20 - 3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-87° 52' 20"	26.934	-26.915	-87° 52' 40"	27.004	-26.986	-87° 52' 50"	27.039	-27.021
30	26.969	-26.950	50	27.039	-27.021	60	27.075	-27.057

$$\alpha_{1931.0} = 14^h 52^m 25^s.29$$

$$\delta_{1931.0} = -87^\circ 52' 18''.70$$

*) Tag der doppelten unteren Kulmination: Nov. 4

Sf) Octantis 26 G. 6^m.13

Tag	Januar			Februar			März			April		
	AR.	Dekl.	« Glieder	AR.	Dekl.	« Glieder	AR.	Dekl.	« Glieder	AR.	Dekl.	« Glieder
	16 ^h 34 ^m	86° 14'	0.01 0.01	16 ^h 34 ^m	86° 14'	0.01 0.01	16 ^h 34 ^m	86° 14'	0.01 0.01	16 ^h 34 ^m	86° 14'	0.01 0.01
1	24.02	39.47	— 10 + 9	34.25	34.27	+ 8 + 7	45.45	33.68	+ 9 + 4	57.49	37.48	0 — 11
2	24.29	39.23	— 5 + 11	34.63	34.18	+ 10 + 2	45.86	33.73	+ 9 — 2	57.85	37.67	— 4 — 10
3	24.56	39.00	0 + 11	35.02	34.10	+ 10 — 4	46.27	33.79	+ 8 — 7	58.20	37.87	— 8 — 8
4	24.84	38.78	+ 6 + 9	35.40	34.02	+ 8 — 9	46.67	33.85	+ 4 — 10	58.55	38.07	— 9 — 3
5	25.12	38.56	+ 10 + 4	35.79	33.94	+ 3 — 11	47.08	33.92	— 1 — 11	58.89	38.27	— 8 + 2
6	25.41	38.34	+ 11 — 1	36.18	33.87	— 2 — 11	47.49	33.99	— 5 — 10	59.23	38.48	— 5 + 6
7	25.70	38.13	+ 10 — 6	36.57	33.81	— 6 — 9	47.89	34.07	— 8 — 6	59.57	38.69	0 + 9
8	26.00	37.92	+ 6 — 10	36.96	33.75	— 8 — 4	48.29	34.15	— 9 — 1	59.91	38.90	+ 5 + 9
9	26.30	37.71	+ 1 — 12	37.36	33.69	— 8 + 1	48.69	34.24	— 7 + 4	60.25	39.12	+ 10 + 8
10	26.60	37.51	— 4 — 10	37.76	33.64	— 6 + 5	49.09	34.33	— 3 + 7	60.58	39.34	+ 12 + 5
11	26.91	37.31	— 7 — 7	38.16	33.60	— 1 + 8	49.49	34.43	+ 2 + 9	60.91	39.57	+ 13 0
12	27.22	37.12	— 9 — 2	38.56	33.56	+ 3 + 9	49.89	34.53	+ 7 + 9	61.23	39.80	+ 12 — 4
13	27.54	36.93	— 8 + 3	38.96	33.52	+ 8 + 8	50.29	34.64	+ 11 + 7	61.55	40.03	+ 9 — 7
14	27.86	36.75	— 5 + 7	39.36	33.49	+ 11 + 6	50.69	34.75	+ 13 + 3	61.87	40.26	+ 5 — 9
15	28.19	36.57	0 + 9	39.76	33.47	+ 12 + 2	51.08	34.86	+ 13 — 1	62.18	40.50	0 — 10
16	28.52	36.40	+ 5 + 9	40.16	33.45	+ 12 — 2	51.47	34.98	+ 11 — 5	62.49	40.74	— 5 — 9
17	28.85	36.23	+ 9 + 7	40.57	33.44	+ 9 — 6	51.86	35.11	+ 7 — 8	62.80	40.99	— 9 — 6
18	29.19	36.07	+ 11 + 4	40.98	33.43	+ 5 — 9	52.25	35.24	+ 3 — 9	63.10	41.24	— 12 — 2
19	29.53	35.91	+ 12 0	41.38	33.43	0 — 10	52.64	35.37	— 2 — 10	63.40	41.49	— 13 + 2
20	29.87	35.75	+ 10 — 4	41.79	33.43	— 5 — 9	53.03	35.50	— 7 — 8	63.70	41.74	— 11 + 7
21	30.22	35.60	+ 7 — 7	42.20	33.44	— 9 — 7	53.41	35.64	— 11 — 5	63.99	42.00	— 8 + 10
22	30.57	35.45	+ 3 — 9	42.60	33.45	— 13 — 3	53.79	35.79	— 13 0	64.28	42.26	— 3 + 12
23	30.93	35.31	— 2 — 10	43.01	33.47	— 14 + 2	54.17	35.94	— 13 + 4	64.56	42.52	+ 2 + 11
24	31.29	35.18	— 7 — 8	43.41	33.49	— 13 + 6	54.55	36.09	— 11 + 8	64.84	42.79	+ 6 + 8
25	31.65	35.05	— 11 — 6	43.82	33.52	— 10 + 10	54.93	36.25	— 6 + 11	65.11	43.06	+ 9 + 3
26	32.01	34.92	— 14 — 1	44.23	33.55	— 5 + 12	55.30	36.41	— 2 + 12	65.38	43.33	+ 9 — 2
27	32.38	34.80	— 14 + 3	44.64	33.59	0 + 12	55.67	36.58	+ 3 + 10	65.65	43.60	+ 7 — 7
28	32.75	34.69	— 12 + 8	45.04	33.63	+ 5 + 9	56.04	36.75	+ 7 + 6	65.91	43.87	+ 2 — 10
29	33.12	34.58	— 8 + 11	45.45	33.68	+ 9 + 4	56.41	36.93	+ 9 + 1	66.17	44.15	— 3 — 11
30	33.49	34.47	— 3 + 12				56.77	37.11	+ 8 — 4	66.42	44.43	— 7 — 9
31	33.87	34.37	+ 3 + 11				57.13	37.29	+ 5 — 9	66.67	44.72	— 10 — 5
32	34.25	34.27	+ 8 + 7				57.49	37.48	0 — 11			

$$\begin{array}{ccc} \delta & \sec \delta & \operatorname{tg} \delta \\ -86^{\circ} 14' 30'' & 15.256 & -15.223 \\ 40 & 15.267 & -15.234 \end{array}$$

$$\begin{array}{ccc} \delta & \sec \delta & \operatorname{tg} \delta \\ -86^{\circ} 14' 40'' & 15.267 & -15.234 \\ 50 & 15.278 & -15.246 \end{array}$$

$$\alpha_{1931.0} = 16^{\text{h}} 34^{\text{m}} 47^{\text{s}}.18$$

$$\delta_{1931.0} = -86^{\circ} 14' 42''.96$$

8f) Octantis 26 G. 6^m.13

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	16 ^h 35 ^m	86° 14'	in 0.01|0.01	16 ^h 35 ^m	86° 14'	in 0.01|0.01	16 ^h 35 ^m	86° 15'	in 0.01|0.01	16 ^h 34 ^m	86° 15'	in 0.01|0.01
1	6.67	44.72	-10 - 5	11.95 12.04	54.34 54.66	0 + 10 + 5 + 10	12.02	4.10	+13 + 1	67.04	11.64	+ 2 - 10
2	6.91	45.00	-10 0	12.12	54.99	+10 + 8	11.93	4.39	+12 - 3	66.81	11.82	- 3 - 10
3	7.15	45.29	- 7 + 5	12.20	55.31	+12 + 4	11.84	4.68	+ 9 - 7	66.57	12.00	- 8 - 8
4	7.39	45.59	- 3 + 8	12.27	55.64	+13 0	11.74	4.97	+ 5 - 9	66.33	12.17	-11 - 4
5	7.62	45.88	+ 2 + 10	12.33	55.96	+11 - 4	11.64	5.25	0 - 10	66.09	12.34	-13 0
6	7.85	46.17	+ 8 + 9	12.39	56.29	+ 8 - 8	11.53	5.53	- 5 - 9	65.85	12.51	-13 + 4
7	8.07	46.47	+11 + 6	12.44	56.61	+ 3 - 10	11.42	5.81	- 9 - 6	65.60	12.67	-10 + 8
8	8.29	46.77	+13 + 2	12.49	56.94	- 1 - 10	11.30	6.08	-12 - 3	65.35	12.83	- 6 + 11
9	8.50	47.06	+13 - 2	12.53	57.26	- 6 - 8	11.18	6.35	-13 + 2	65.10	12.98	- 1 + 12
10	8.71	47.36	+10 - 6	12.57	57.59	-10 - 5	11.05	6.62	-12 + 6	64.84	13.12	+ 4 + 10
11	8.91	47.67	+ 6 - 9	12.60	57.91	-12 - 1	10.92	6.89	- 9 + 10	64.58	13.26	+ 7 + 6
12	9.11	47.97	+ 2 - 10	12.62	58.23	-12 + 3	10.78	7.15	- 4 + 12	64.31	13.39	+ 9 + 1
13	9.30	48.28	- 3 - 10	12.64	58.55	-10 + 7	10.64	7.41	+ 1 + 11	64.04	13.52	+ 9 - 4
14	9.49	48.59	- 8 - 7	12.65	58.87	- 7 + 10	10.49	7.67	+ 6 + 8	63.77	13.64	+ 6 - 9
15	9.67	48.90	-11 - 4	12.66	59.19	- 1 + 12	10.34	7.92	+10 + 4	63.50	13.76	+ 1 - 11
16	9.85	49.22	-12 0	12.66	59.50	+ 4 + 10	10.18	8.17	+10 - 2	63.23	13.87	- 4 - 11
17	10.02	49.53	-12 + 5	12.66	59.82	+ 8 + 7	10.01	8.42	+ 8 - 7	62.95	13.98	- 8 - 8
18	10.19	49.84	- 9 + 9	12.65	60.14	+10 + 2	9.84	8.66	+ 4 - 10	62.67	14.08	- 9 - 3
19	10.35	50.16	- 5 + 11	12.63	60.45	+10 - 4	9.67	8.90	- 1 - 11	62.39	14.18	- 9 + 2
20	10.50	50.47	0 + 11	12.61	60.77	+ 7 - 8	9.49	9.14	- 6 - 10	62.11	14.27	- 5 + 7
21	10.65	50.79	+ 5 + 9	12.59	61.08	+ 2 - 11	9.31	9.37	- 9 - 6	61.82	14.36	0 + 9
22	10.79	51.11	+ 9 + 5	12.56	61.39	- 3 - 11	9.13	9.60	-10 - 1	61.54	14.44	+ 5 + 10
23	10.93	51.43	+10 0	12.52	61.70	- 8 - 8	8.94	9.82	- 8 + 4	61.25	14.51	+10 + 8
24	11.07	51.75	+ 8 - 5	12.48	62.00	-10 - 4	8.74	10.04	- 4 + 8	60.96	14.58	+13 + 4
25	11.20	52.08	+ 4 - 9	12.43	62.30	-10 + 1	8.54	10.26	+ 1 + 10	60.67	14.64	+14 0
26	11.32	52.40	- 1 - 11	12.38	62.61	- 7 + 6	8.34	10.47	+ 6 + 9	60.38	14.70	+12 - 4
27	11.44	52.72	- 6 - 10	12.32	62.91	- 3 + 9	8.14	10.68	+11 + 7	60.08	14.75	+ 9 - 8
28	11.55	53.04	- 9 - 7	12.25	63.21	+ 3 + 10	7.93	10.88	+13 + 3	59.78	14.79	+ 4 - 10
29	11.66	53.37	-11 - 2	12.18	63.51	+ 8 + 9	7.71	11.08	+13 - 1	59.48	14.83	- 1 - 10
30	11.76	53.69	- 9 + 3	12.10	63.81	+11 + 5	7.49	11.27	+11 - 5	59.18	14.86	- 6 - 8
31	11.86	54.01	- 5 + 7	12.02	64.10	+13 + 1	7.27	11.46	+ 7 - 8	58.88	14.89	-10 - 6
32	11.95 12.04	54.34 54.66	0 + 10 + 5 - 10				7.04	11.64	+ 2 - 10	58.58	14.91	-12 - 2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-86° 14' 40"	15.267	-15.234	-86° 14' 50"	15.278	-15.246	-86° 15' 10"	15.301	-15.268
50	15.278	-15.246	60	15.290	-15.257	20	15.312	-15.280

$$\alpha_{1931.0} = 16^h 34^m 47^s.18$$

$$\delta_{1931.0} = -86^\circ 14' 42''.96$$

Sg) χ Octantis 5^m.22

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder	AR.	Dekl.	Gl.ieder
	18 ^h 13 ^m	87° 39'	in 0.01|0.01	18 ^h 14 ^m	87° 39'	in 0.01|0.01	18 ^h 14 ^m	87° 39'	in 0.01|0.01	18 ^h 14 ^m	87° 39'	in 0.01|0.01
1	55.85	47.17	-20 + 5	6.85	38.30	+ 7 + 9	22.54	33.21	+10 + 7	42.55	31.78	+ 7 -10
2	56.06	46.85	-15 + 9	7.33	38.06	+14 + 5	23.16	33.09	+15 + 2	43.20	31.81	0 -11
3	56.28	46.53	- 6 +11	7.82	37.83	+17 0	23.79	32.98	+16 - 4	43.85	31.85	- 7 -10
4	56.52	46.21	+ 3 +11	8.32	37.60	+16 - 5	24.42	32.87	+12 - 8	44.49	31.89	-12 - 6
5	56.77	45.90	+11 + 7	8.82	37.37	+11 - 9	25.05	32.77	+ 6 -11	45.13	31.94	-13 0
6	57.02	45.58	+17 + 3	9.33	37.15	+ 4 -11	25.68	32.67	- 1 -11	45.77	31.99	-11 + 5
7	57.29	45.27	+18 - 2	9.85	36.93	- 3 -10	26.32	32.58	- 8 - 8	46.41	32.04	- 6 + 9
8	57.57	44.96	+15 - 7	10.37	36.72	- 9 - 7	26.95	32.49	-12 - 4	47.04	32.10	+ 1 +11
9	57.85	44.65	+ 9 -10	10.90	36.51	-12 - 2	27.59	32.40	-12 + 1	47.68	32.16	+ 9 +11
10	58.14	44.34	+ 1 -11	11.44	36.30	-11 + 3	28.23	32.32	- 9 + 6	48.31	32.23	+15 + 8
11	58.45	44.04	- 6 - 9	11.98	36.10	- 7 + 7	28.87	32.24	- 3 +10	48.94	32.30	+19 + 4
12	58.76	43.74	-11 - 5	12.53	35.90	- 1 +10	29.52	32.17	+ 4 +11	49.57	32.38	+20 0
13	59.09	43.44	-13 0	13.08	35.71	+ 6 +11	30.17	32.10	+11 +10	50.19	32.46	+17 - 4
14	59.42	43.14	-11 + 5	13.64	35.52	+12 + 9	30.81	32.04	+16 + 7	50.81	32.55	+12 - 8
15	59.76	42.85	- 6 + 9	14.20	35.33	+16 + 6	31.46	31.98	+19 + 3	51.43	32.64	+ 6 -10
16	60.11	42.56	+ 1 +11	14.77	35.15	+18 + 2	32.11	31.93	+18 - 1	52.05	32.74	- 2 -10
17	60.47	42.27	+ 8 +10	15.34	34.97	+16 - 2	32.76	31.88	+15 - 5	52.66	32.84	- 9 - 9
18	60.84	41.98	+13 + 8	15.92	34.80	+12 - 6	33.41	31.84	+ 9 - 8	53.27	32.94	-16 - 6
19	61.22	41.70	+17 + 4	16.50	34.63	+ 6 - 9	34.07	31.80	+ 2 -10	53.88	33.05	-20 - 2
20	61.60	41.42	+17 0	17.09	34.47	- 2 -10	34.72	31.77	- 5 -10	54.49	33.16	-20 + 2
21	62.00	41.14	+15 - 4	17.68	34.31	- 9 -10	35.37	31.75	-13 - 8	55.09	33.28	-18 + 7
22	62.41	40.86	+10 - 7	18.27	34.16	-16 - 7	36.03	31.73	-19 - 4	55.69	33.40	-12 +10
23	62.82	40.59	+ 3 -10	18.87	34.01	-21 - 3	36.68	31.71	-21 0	56.28	33.53	- 4 +11
24	63.24	40.32	- 5 -10	19.47	33.87	-22 + 1	37.33	31.70	-21 + 5	56.87	33.66	+ 4 + 9
25	63.66	40.06	-12 - 9	20.08	33.73	-20 + 6	37.99	31.69	-17 + 9	57.45	33.79	+11 + 6
26	64.09	39.80	-19 - 6	20.69	33.59	-15 + 9	38.64	31.69	-10 +11	58.03	33.93	+14 + 1
27	64.53	39.54	-22 - 2	21.30	33.46	- 7 +11	39.29	31.69	- 1 +11	58.60	34.07	+14 - 5
28	64.98	39.28	-22 + 3	21.92	33.33	+ 2 +10	39.95	31.70	+ 7 + 8	59.17	34.22	+ 9 - 9
29	65.44	39.03	-18 + 7	22.54	33.21	+10 + 7	40.60	31.71	+12 + 3	59.74	34.37	+ 2 -11
30	65.90	38.78	-11 +10				41.25	31.73	+14 - 2	60.30	34.53	- 5 -11
31	66.37	38.54	- 2 +11				41.90	31.75	+13 - 7	60.86	34.69	-11 - 8
32	66.85	38.30	+ 7 + 9				42.55	31.78	+ 7 -10			

δ	sec δ	tg δ	δ	sec δ	tg δ
-87° 39' 30"	24.475	-24.454	-87° 39' 40"	24.504	-24.483
40	24.504	-24.483	50	24.533	-24.513

$$\alpha_{1931.0} = 18^h 14^m 31^s.90$$

$$\delta_{1931.0} = -87^\circ 39' 40''.95$$

Sg) χ Octantis 5^m.22

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	18 ^h 15 ^m	87° 39'	in 0.01 | 0.01	18 ^h 15 ^m	87° 39'	in 0.01 | 0.01	18 ^h 15 ^m	87° 39'	in 0.01 | 0.01	18 ^h 15 ^m	87° 39'	in 0.01 | 0.01
1	0.86	34.69	-11 - 8	15.18	41.43	- 6 + 9	22.03	50.50	+17 + 6	20.04	59.64	+ 9 - 9
2	1.41	34.86	-14 - 3	15.54	41.70	+ 1 +11	22.11	50.81	+19 + 1	19.83	59.90	+ 2 -10
3	1.96	35.03	-14 + 2	15.88	41.98	+ 9 +10	22.18	51.11	+17 - 3	19.61	60.16	- 6 -10
4	2.50	35.20	- 9 + 7	16.21	42.25	+15 + 8	22.24	51.42	+13 - 7	19.39	60.42	-13 - 8
5	3.03	35.38	- 2 +10	16.53	42.52	+19 + 4	22.29	51.73	+ 6 - 9	19.16	60.68	-18 - 5
6	3.56	35.56	+ 5 +11	16.85	42.80	+19 0	22.33	52.03	- 1 -10	18.92	60.94	-21 0
7	4.09	35.74	+12 +10	17.16	43.08	+16 - 5	22.36	52.34	- 9 - 9	18.66	61.19	-20 + 4
8	4.61	35.93	+17 + 6	17.46	43.35	+11 - 8	22.38	52.64	-15 - 7	18.40	61.44	-16 + 8
9	5.12	36.12	+20 + 2	17.75	43.63	+ 4 -10	22.39	52.95	-20 - 3	18.13	61.69	- 9 +10
10	5.63	36.31	+18 - 2	18.04	43.92	- 4 -10	22.39	53.26	-21 + 2	17.85	61.93	- 1 +10
11	6.14	36.51	+15 - 6	18.32	44.21	-11 - 8	22.38	53.56	-18 + 6	17.57	62.17	+ 7 + 8
12	6.64	36.71	+ 9 - 9	18.58	44.50	-17 - 5	22.36	53.86	-13 + 9	17.28	62.40	+13 + 4
13	7.13	36.91	+ 1 -10	18.84	44.79	-20 - 1	22.33	54.17	- 5 +11	16.98	62.63	+15 - 1
14	7.62	37.12	- 6 -10	19.09	45.08	-20 + 3	22.29	54.47	+ 4 +10	16.67	62.86	+14 - 6
15	8.10	37.33	-13 - 8	19.33	45.37	-16 + 7	22.25	54.77	+11 + 7	16.36	63.09	+ 9 -10
16	8.57	37.55	-18 - 4	19.56	45.66	- 9 +10	22.20	55.07	+16 + 2	16.04	63.31	+ 1 -11
17	9.03	37.77	-20 + 1	19.78	45.96	- 1 +11	22.14	55.37	+16 - 3	15.71	63.53	- 6 -10
18	9.49	37.99	-18 + 5	19.99	46.26	+ 7 + 9	22.06	55.66	+13 - 8	15.37	63.74	-11 - 6
19	9.94	38.22	-14 + 9	20.20	46.55	+14 + 5	21.97	55.96	+ 6 -11	15.03	63.95	-13 - 1
20	10.39	38.45	- 6 +11	20.40	46.85	+16 0	21.88	56.26	- 2 -11	14.68	64.15	-12 + 4
21	10.83	38.68	+ 2 +10	20.59	47.15	+15 - 6	21.77	56.55	- 9 - 8	14.32	64.35	- 6 + 9
22	11.26	38.92	+ 9 + 8	20.76	47.46	+10 - 9	21.66	56.84	-13 - 4	13.96	64.54	+ 1 +11
23	11.69	39.16	+14 + 3	20.93	47.76	+ 2 -11	21.54	57.13	-14 + 1	13.59	64.73	+ 9 +11
24	12.11	39.40	+15 - 2	21.09	48.06	- 6 -10	21.41	57.41	-11 + 6	13.22	64.92	+15 + 9
25	12.52	39.64	+12 - 7	21.24	48.37	-12 - 7	21.27	57.70	- 4 +10	12.84	65.10	+19 + 5
26	12.92	39.89	+ 5 -11	21.38 21.51	48.67 48.98	-15 - 2 -14 + 3	21.12	57.98	+ 3 +11	12.45	65.28	+20 0
27	13.31	40.14	- 2 -11	21.63	49.28	- 9 + 8	20.96	58.26	+11 +10	12.05	65.45	+17 - 4
28	13.70	40.39	- 9 - 9	21.75	49.58	- 2 +10	20.80	58.54	+16 + 7	11.65	65.62	+12 - 8
29	14.08	40.65	-14 - 5	21.86	49.89	+ 6 +11	20.62	58.82	+19 + 3	11.24	65.78	+ 5 -10
30	14.45	40.91	-15 0	21.95	50.20	+13 + 9	20.43	59.10	+18 - 1	10.83	65.94	- 3 -10
31	14.82	41.17	-12 + 5	22.03	50.50	+17 + 6	20.24	59.37	+15 - 6	10.42	66.10	-10 - 9
32	15.18	41.43	- 6 + 9				20.04	59.64	+ 9 - 9	10.00	66.25	-16 - 6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-87° 39' 30"	24.475	-24.454	-87° 39' 50"	24.533	-24.513	-87° 39' 60"	24.562	-24.542
40	24.504	-24.483	60	24.562	-24.542	70	24.591	-24.571

$$\alpha_{1931.0} = 18^h 14^m 31^s.90$$

$$\delta_{1931.0} = -87^\circ 39' 40''.95$$

Sg) χ Octantis $5^m.22$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	\pm Glieder	AR.	Dekl.	\pm Glieder	AR.	Dekl.	\pm Glieder	AR.	Dekl.	\pm Glieder
	$18^h 14^m$	$87^\circ 40'$	$\begin{smallmatrix} \text{a.oi} & \text{o.oi} \end{smallmatrix}$	$18^h 14^m$	$87^\circ 40'$	$\begin{smallmatrix} \text{a.oi} & \text{o.oi} \end{smallmatrix}$	$18^h 14^m$	$87^\circ 39'$	$\begin{smallmatrix} \text{a.oi} & \text{o.oi} \end{smallmatrix}$	$18^h 14^m$	$87^\circ 39'$	$\begin{smallmatrix} \text{a.oi} & \text{o.oi} \end{smallmatrix}$
			in			in			in			in
1	70.00	6.25	-16 - 6	55.78	8.12	-19 + 5	41.76	64.51	+ 5 + 9	34.05	56.60	+13 - 4
2	69.57	6.39	-20 - 2	55.29	8.09	-15 + 9	41.39	64.31	+11 + 5	33.94	56.29	+10 - 8
3	69.14	6.53	-21 + 3	54.80	8.06	- 8 +11	41.02	64.10	+13 0	33.84	55.98	+ 3 -11
4	68.70	6.66	-18 + 7	54.31	8.02	0 +10	40.66	63.88	+12 - 6	33.74	55.67	- 5 -11
5	68.26	6.79	-13 +10	53.82	7.97	+ 7 + 7	40.30	63.66	+ 7 -10	33.66	55.35	-12 - 9
6	67.81	6.91	- 5 +11	53.33	7.92	+12 + 3	39.95	63.44	- 1 -11	33.59	55.03	-16 - 4
7	67.36	7.03	+ 3 + 9	52.84	7.86	+13 - 2	39.61	63.21	- 8 -10	33.53	54.71	-17 + 1
8	66.90	7.14	+10 + 6	52.35	7.80	+11 - 7	39.28	62.98	-14 - 7	33.48	54.39	-13 + 6
9	66.44	7.25	+14 + 1	51.87	7.73	+ 5 -11	38.96	62.74	-16 - 2	33.44	54.06	- 6 +10
10	65.98	7.35	+14 - 5	51.39	7.65	- 2 -11	38.64	62.50	-15 + 3	33.41	53.74	+ 3 +11
11	65.52	7.45	+10 - 9	50.91	7.57	- 9 - 9	38.33	62.26	- 9 + 8	33.39	53.41	+11 +10
12	65.05	7.54	+ 3 -11	50.43	7.48	-14 - 5	38.03	62.01	- 1 +11	33.38	53.09	+18 + 7
13	64.58	7.62	- 4 -11	49.96	7.39	-14 0	37.74	61.76	+ 8 +11	33.39	52.76	+21 + 3
14	64.11	7.70	-10 - 8	49.49	7.29	-11 + 5	37.46	61.50	+15 + 9	33.41	52.43	+20 - 2
15	63.63	7.77	-13 - 3	49.02	7.18	- 5 + 9	37.18	61.24	+20 + 5	33.43	52.10	+17 - 6
16	63.15	7.84	-13 + 2	48.56	7.07	+ 3 +11	36.91	60.97	+21 + 1	33.46	51.77	+10 - 9
17	62.67	7.90	- 9 + 7	48.10	6.95	+12 +10	36.65	60.70	+19 - 4	33.51	51.44	+ 3 -10
18	62.18	7.95	- 1 +10	47.64	6.83	+18 + 8	36.41	60.43	+14 - 7	33.56	51.11	- 5 - 9
19	61.70	8.00	+ 7 +11	47.19	6.70	+21 + 4	36.17	60.16	+ 8 -10	33.63	50.78	-12 - 7
20	61.21	8.04	+14 +10	46.74	6.56	+21 - 1	35.94	59.88	0 -10	33.71	50.45	-16 - 4
21	60.72	8.08	+19 + 6	46.30	6.42	+18 - 5	35.72	59.60	- 7 - 9	33.80	50.11	-18 + 1
22	60.23	8.11	+21 + 2	45.86	6.28	+12 - 8	35.51	59.31	-14 - 6	33.90	49.78	-17 + 5
23	59.74	8.14	+19 - 2	45.42	6.13	+ 4 -10	35.31	59.02	-18 - 2	34.01	49.45	-13 + 8
24	59.25	8.16	+15 - 6	44.99	5.97	- 3 -10	35.12	58.73	-18 + 2	34.13	49.12	- 7 +10
25	58.76	8.17	+ 8 - 9	44.57	5.81	-10 - 8	34.93	58.43	-16 + 6	34.26	48.79	+ 1 +10
26	58.26	8.18	+ 1 -10	44.15	5.64	-16 - 5	34.76	58.13	-11 + 9	*34.40	48.46	+ 8 + 8
27	57.77	8.18	- 7 - 9	43.74	5.46	-19 0	34.60	57.83	- 4 +11	34.56	48.13	+13 + 4
28	57.27	8.17	-14 - 7	43.33	5.28	-19 + 4	34.45	57.53	+ 3 +10	34.72	47.80	+15 - 1
29	56.78	8.16	-18 - 3	42.93	5.10	-16 + 8	34.31	57.22	+10 + 6	34.89	47.47	+13 - 6
30	56.28	8.14	-20 + 1	42.53	4.91	-10 +10	34.17	56.91	+13 + 2	35.07	47.15	+ 7 -10
31	55.78	8.12	-19 + 5	42.14	4.71	- 2 +11	34.05	56.60	+13 - 4	35.27	46.83	- 1 -11
32				41.76	4.51	+ 5 + 9				35.47	46.50	- 9 -10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$-87^\circ 39' 40''$	24.504	-24.483	$-87^\circ 39' 50''$	24.533	-24.513	$-87^\circ 40' 0''$	24.562	-24.542
50	24.533	-24.513	60	24.562	-24.542	10	24.591	-24.571

$$\alpha_{1931.0} = 18^h 14^m 31^s.90$$

$$\delta_{1931.0} = -87^\circ 39' 40''.95$$

*) Tag der doppelten unteren Kulmination: Dez. 26

Sh) σ Octantis 5^m.48

Tag	Januar			Februar			März			April		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	19 ^h 47 ^m	89° 11'	0.01 | 0.01	19 ^h 47 ^m	89° 11'	0.01 | 0.01	19 ^h 48 ^m	89° 11'	0.01 | 0.01	19 ^h 49 ^m	89° 11'	0.01 | 0.01
1	35.20	46.06	-60 0	47.00	35.22	+1 +10	18.56	26.72	+14 +8	8.52	20.55	+38 -8
2	35.16	45.72	-53 +5	47.82	34.88	+26 +8	19.98	26.46	+35 +5	10.28	20.42	+21 -10
3	35.13	45.37	-36 +9	48.67	34.55	+44 +3	21.41	26.20	+47 0	12.05	20.30	+1 -10
4	35.14	45.02	-11 +10	49.54	34.21	+51 -2	22.86	25.95	+47 -5	13.82	20.18	-19 -8
5	35.17	44.67	+16 +9	50.43	33.88	+46 -6	24.32	25.70	+36 -9	15.60	20.07	-32 -3
6	35.24	44.32	+38 +6	51.35	33.55	+31 -9	25.80	25.46	+17 -10	17.38	19.96	-36 +2
7	35.33	43.97	+51 +2	52.29	33.23	+10 -10	27.30	25.22	-4 -9	19.16	19.86	-30 +7
8	35.45	43.61	+53 -4	53.26	32.90	-11 -8	28.81	24.98	-22 -6	20.95	19.76	-16 +10
9	35.61	43.26	+42 -8	54.25	32.58	-27 -4	30.33	24.75	-33 -1	22.74	19.66	+3 +12
10	35.79	42.90	+23 -10	55.26	32.26	-34 +1	31.87	24.52	-33 +4	24.54	19.57	+22 +11
11	36.00	42.55	0 -10	56.30	31.94	-32 +5	33.42	24.29	-25 +8	26.34	19.48	+38 +9
12	36.24	42.20	-20 -7	57.36	31.63	-20 +9	34.99	24.07	-9 +11	28.14	19.40	+48 +5
13	36.51	41.84	-33 -2	58.44	31.32	-4 +11	36.57	23.85	+10 +12	29.94	19.33	+50 0
14	36.81	41.49	-37 +2	59.54	31.01	+15 +11	38.16	23.64	+27 +10	31.74	19.26	+44 -4
15	37.14	41.13	-30 +7	60.67	30.70	+31 +9	39.76	23.43	+41 +7	33.54	19.19	+32 -8
16	37.50	40.78	-17 +10	61.82	30.40	+42 +5	41.37	23.23	+48 +3	35.34	19.13	+14 -10
17	37.89	40.43	+1 +11	62.99	30.10	+46 +1	43.00	23.03	+47 -1	37.14	19.08	-7 -10
18	38.30	40.08	+19 +10	64.18	29.80	+43 -3	44.64	22.83	+38 -5	38.94	19.03	-29 -9
19	38.75	39.72	+34 +8	65.39	29.50	+32 -7	46.29	22.64	+24 -9	40.74	18.98	-46 -6
20	39.22	39.37	+43 +4	66.63	29.21	+15 -10	47.94	22.45	+4 -11	42.54	18.94	-56 -2
21	39.72	39.02	+44 -1	67.88	28.92	-6 -11	49.61	22.27	-17 -11	44.34	18.90	-57 +2
22	40.24	38.67	+38 -5	69.16	28.63	-28 -10	51.29	22.09	-38 -9	46.14	18.87	-48 +6
23	40.80	38.32	+25 -8	70.45	28.35	-47 -8	52.98	21.92	-53 -5	47.93	18.84	-29 +9
24	41.38	37.98	+6 -11	71.75	28.07	-59 -4	54.67	21.75	-60 -1	49.73	18.82	-6 +10
25	41.98	37.63	-15 -11	73.08	27.79	-62 +1	56.38	21.58	-57 +4	51.52	18.80	+17 +8
26	42.62	37.28	-36 -10	74.42	27.52	-54 +5	58.09	21.42	-44 +7	53.31	18.79	+35 +4
27	43.28	36.94	-53 -6	75.79	27.25	-36 +9	59.81	21.26	-22 +9	55.09	18.79	+44 -1
28	43.97	36.59	-61 -2	77.17	26.98	-12 +10	61.54	21.11	+3 +9	56.87	18.79	+40 -6
29	44.69	36.25	-60 +3	78.56	26.72	+14 +8	63.28	20.96	+26 +6	58.65	18.79	+26 -10
30	45.43	35.90	-47 +7				65.02	20.82	+40 +2	60.42	18.80	+6 -11
31	46.20	35.56	-25 +10				66.77	20.68	+45 -4	62.19	18.81	-15 -10
32	47.00	35.22	+1 +10				68.52	20.55	+38 -8			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-89° 11' 10"	70.400	-70.393	-89° 11' 20"	70.641	-70.634	-89° 11' 40"	71.128	-71.121
20	70.641	-70.634	30	70.884	-70.877	50	71.374	-71.367

$$\alpha_{1931.0} = 19^h 48^m 58^s.96$$

$$\delta_{1931.0} = -89^\circ 11' 31'' 69$$

*) Tag der doppelten unteren Kulmination: Jan. 18

Sh) σ Octantis $5^m.48$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	$19^h 50^m$	$89^\circ 11'$	$0.01'' 0.01''$	$19^h 50^m$	$89^\circ 11'$	$0.01'' 0.01''$	$19^h 51^m$	$89^\circ 11'$	$0.01'' 0.01''$	$19^h 51^m$	$89^\circ 11'$	$0.01'' 0.01''$
1	2.19	18.81	-15 -10	52.56	21.60	-32 + 7	26.93	28.09	+16 +11	39.79	37.37	+38 - 6
2	3.95	18.83	-31 - 6	53.98	21.76	-16 +10	27.74	28.36	+34 + 9	39.74	37.67	+22 - 9
3	5.70	18.85	-39 - 1	55.39	21.93	+ 6 +11	28.52	28.63	+46 + 5	39.67	37.97	+ 2 -10
4	7.45	18.88	-36 + 4	56.78	22.10	+25 +10	29.28	28.90	+50 + 1	39.56	38.27	-19 -10
5	9.19	18.91	-25 + 9	58.16	22.27	+40 + 8	30.01	29.17	+45 - 4	39.43	38.57	-39 - 8
6	10.93	18.95	- 6 +11	59.52	22.45	+49 + 4	30.72	29.44	+33 - 7	39.27	38.86	-53 - 5
7	12.66	18.99	+15 +12	60.85	22.63	+50 - 1	31.40	29.72	+15 -10	39.09	39.16	-60 0
8	14.38	19.04	+33 +10	62.17	22.82	+42 - 5	32.06	30.00	- 6 -10	38.88	39.46	-56 + 4
9	16.10	19.09	+45 + 6	63.48	23.01	+27 - 8	32.69	30.28	-27 - 9	38.64	39.75	-42 + 8
10	17.80	19.15	+51 + 2	64.76	23.21	+ 8 -10	33.30	30.56	-45 - 7	38.37	40.05	-21 + 9
11	19.50	19.21	+48 - 2	66.03	23.41	-13 -10	33.88	30.84	-56 - 3	38.08	40.34	+ 4 + 9
12	21.19	19.28	+37 - 6	67.27	23.61	-33 - 9	34.43	31.13	-58 + 2	37.75	40.62	+27 + 6
13	22.87	19.35	+21 - 9	68.50	23.82	-48 - 5	34.96	31.42	-50 + 6	37.40	40.91	+42 + 2
14	24.54	19.43	+ 1 -10	69.70	24.03	-56 - 1	35.46	31.71	-32 + 9	37.02	41.20	+47 - 3
15	26.20	19.51	-20 -10	70.89	24.24	-54 + 4	35.93	32.00	- 8 +10	36.61	41.49	+41 - 7
16	27.85	19.60	-39 - 7	72.05	24.46	-42 + 8	36.38	32.29	+17 + 9	36.18	41.77	+24 -10
17	29.49	19.69	-52 - 4	73.20	24.68	-22 +10	36.80	32.59	+37 + 5	35.72	42.06	+ 3 -10
18	31.12	19.79	-56 + 1	74.32	24.90	+ 3 +10	37.19	32.88	+48 0	35.23	42.34	-18 - 8
19	32.73	19.89	-51 + 5	75.43	25.13	+27 + 7	37.56	33.18	+47 - 5	34.72	42.62	-33 - 4
20	34.34	19.99	-36 + 9	76.51	25.36	+42 + 3	37.90	33.47	+35 - 9	34.18	42.90	-38 + 2
21	35.93	20.10	-14 +10	77.57	25.59	+48 - 2	$\begin{Bmatrix} 38.21 \\ 38.50 \end{Bmatrix}$	$\begin{Bmatrix} 33.77 \\ 34.07 \end{Bmatrix}$	$\begin{Bmatrix} +15-11 \\ - 8-10 \end{Bmatrix}$	33.62	43.17	-32 + 7
22	37.51	20.21	+11 + 9	78.61	25.83	+42 - 7	38.75	34.36	-27 - 7	33.03	43.45	-17 +10
23	39.08	20.33	+32 + 6	79.62	26.07	+26 -10	38.98	34.66	-39 - 2	32.41	43.72	+ 3 +12
24	40.63	20.45	+44 + 1	80.62	26.31	+ 4 -11	39.18	34.96	-39 + 4	31.77	43.99	+23 +11
25	42.17	20.58	+45 - 4	81.59	26.56	-18 - 9	39.35	35.26	-29 + 8	31.10	44.25	+40 + 8
26	43.70	20.71	+34 - 9	82.54	26.81	-35 - 5	39.50	35.56	-12 +11	30.41	44.51	+49 + 4
27	45.21	20.85	+15 -11	83.47	27.06	-41 0	39.62	35.87	+ 9 +11	29.69	44.77	+51 0
28	46.71	20.99	- 8 -11	84.37	27.32	-38 + 5	39.71	36.17	+28 +10	28.95	45.03	+44 - 5
29	48.19	21.14	-27 - 8	85.25	27.57	-25 + 9	39.77	36.47	+42 + 7	28.18	45.28	+30 - 8
30	49.66	21.29	-39 - 3	86.10	27.83	- 5 +11	39.80	36.77	+49 + 2	27.39	45.53	+11 -10
31	51.12	21.44	-41 + 2	86.93	28.09	+16 +11	39.81	37.07	+48 - 2	26.58	45.78	-11 -10
32	52.56	21.60	-32 + 7				39.79	37.37	+38 - 6	25.74	46.02	-31 - 9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$-89^\circ 11' 10''$	70.400	-70.393	$-89^\circ 11' 30''$	70.884	-70.877	$-89^\circ 11' 40''$	71.128	-71.121
20	70.641	-70.634	40	71.128	-71.121	50	71.374	-71.367

$$\alpha_{1931.0} = 19^h 48^m 58^s.96$$

$$\delta_{1931.0} = -89^\circ 11' 31''.69$$

Sk) σ Octantis $5^m.48$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	19 ^h 50 ^m	89° 11'	in [°] 0.01 0.01	19 ^h 50 ^m	89° 11'	in [°] 0.01 0.01	19 ^h 49 ^m	89° 11'	in [°] 0.01 0.01	19 ^h 49 ^m	89° 11'	in [°] 0.01 0.01
1	85.74	46.02	-31 - 9	51.40	51.30	-58 + 1	66.66	51.46	- 3 + 9	30.26	46.10	+41 - 1
2	84.88	46.26	-49 - 6	50.02	51.40	-53 + 5	65.25	51.36	+19 + 7	29.34	45.84	+40 - 6
3	83.99	46.50	-58 - 2	48.63	51.49	-39 + 8	63.85	51.26	+34 + 2	28.44	45.58	+27 - 10
4	83.09	46.73	-59 + 2	47.23	51.58	-18 + 9	62.45	51.15	+40 - 3	27.57	45.31	+ 7 - 11
5	82.16	46.96	-50 + 6	45.83	51.66	+ 5 + 8	61.07	51.04	+35 - 7	26.72	45.04	-15 - 11
6	81.20	47.18	-31 + 9	44.41	51.73	+26 + 5	59.69	50.92	+19 - 11	25.89	44.76	-34 - 8
7	80.23	47.40	- 8 + 9	42.99	51.80	+38 0	58.33	50.79	- 2 - 11	25.09	44.48	-45 - 3
8	79.23	47.62	+15 + 7	41.56	51.86	+41 - 5	56.97	50.66	-22 - 9	24.31	44.20	-44 + 3
9	78.22	47.83	+34 + 3	40.12	51.91	+32 - 9	55.63	50.52	-37 - 5	23.56	43.91	-32 + 8
10	77.18	48.04	+44 - 1	38.68	51.96	+14 - 11	54.31	50.38	-43 0	22.83	43.62	-12 + 11
11	76.13	48.24	+42 - 6	37.23	52.00	- 7 - 11	52.99	50.23	-37 + 5	22.13	43.32	+11 + 12
12	75.05	48.44	+29 - 10	35.78	52.04	-26 - 8	51.69	50.08	-22 + 10	21.46	43.02	+33 + 10
13	73.95	48.63	+ 9 - 11	34.32	52.07	-38 - 3	50.41	49.92	0 + 12	20.81	42.72	+48 + 7
14	72.84	48.82	-12 - 9	32.86	52.09	-39 + 3	49.14	49.75	+22 + 12	20.19	42.41	+55 + 2
15	71.71	49.01	-28 - 6	31.40	52.11	-29 + 8	47.88	49.58	+41 + 9	19.60	42.10	+53 - 2
16	70.56	49.19	-37 0	29.94	52.12	-11 + 11	46.64	49.40	+53 + 5	19.04	41.79	+42 - 6
17	69.39	49.37	-35 + 5	28.47	52.13	+10 + 12	45.41	49.22	+56 + 1	18.50	41.47	+25 - 9
18	68.20	49.54	-22 + 9	27.00	52.13	+31 + 11	44.21	49.03	+50 - 4	18.00	41.16	+ 5 - 10
19	67.00	49.71	- 3 + 12	25.53	52.12	+47 + 8	43.02	48.84	+37 - 7	17.52	40.84	-17 - 9
20	65.78	49.87	+18 + 12	24.07	52.11	+55 + 4	41.84	48.64	+18 - 9	17.06	40.51	-35 - 7
21	64.54	50.03	+37 + 10	22.60	52.09	+54 - 1	40.69	48.43	- 3 - 10	16.64	40.19	-48 - 3
22	63.29	50.18	+49 + 6	21.13	52.07	+45 - 5	39.55	48.22	-24 - 9	16.24	39.86	-53 + 1
23	62.02	50.33	+54 + 2	19.66	52.04	+29 - 8	38.44	48.01	-41 - 6	15.88	39.53	-49 + 5
24	60.74	50.47	+50 - 3	18.20	52.00	+ 9 - 10	37.34	47.79	-52 - 2	15.54	39.19	-37 + 8
25	59.44	50.61	+38 - 7	16.74	51.95	-13 - 10	36.27	47.56	-53 + 2	15.22	38.86	-17 + 10
26	58.13	50.74	+20 - 9	15.28	51.90	-32 - 8	35.21	47.33	-46 + 6	14.94	38.52	+ 6 + 9
27	56.81	50.86	- 1 - 10	13.83	51.84	-48 - 4	34.18	47.09	-30 + 9	14.69	38.18	+27 + 6
28	55.47	50.98	-22 - 9	12.38	51.78	-55 0	33.16	46.85	- 9 + 10	14.46	37.84	+41 + 2
29	54.12	51.09	-40 - 7	10.94	51.71	-54 + 4	32.17	46.60	+13 + 8	14.27	37.50	+44 - 3
30	52.77	51.20	-53 - 3	9.51	51.63	-43 + 7	31.21	46.35	+31 + 4	14.10	37.16	+36 - 8
31	51.40	51.30	-58 + 1	8.08	51.55	-25 + 9	30.26	46.10	+41 - 1	13.97	36.81	+18 - 11
32				6.66	51.46	- 3 + 9				13.86	36.46	- 4 - 11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-89° 11' 30"	70.884	-70.877	-89° 11' 40"	71.128	-71.121	-89° 11' 50"	71.374	-71.367
40	70.128	-71.121	50	71.374	-71.367	60	71.622	-71.615

$$\alpha_{1931.0} = 19^h 48^m 58^s.96$$

$$\delta_{1931.0} = -89^\circ 11' 31''.69$$

Si) β Octantis 4^m.34

Tag	Januar			Februar			März			April		
	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder	AR.	Dekl.	α Glieder
	22 ^h 39 ^m	81° 44'	— in 0.01 0.01	22 ^h 39 ^m	81° 44'	— in 0.01 0.01	22 ^h 39 ^m	81° 44'	— in 0.01 0.01	22 ^h 39 ^m	81° 44'	— in 0.01 0.01
1	5.19	61.80	-6 - 8	2.91	52.81	-2 + 8	2.71	42.46	0 + 8	4.59	30.94	+6 - 1
2	5.08	61.58	-6 - 3	2.87	52.46	+1 + 9	2.74	42.08	+3 + 8	4.68	30.59	+4 - 5
3	4.98	61.35	-6 + 2	2.83	52.11	+4 + 8	2.77	41.70	+5 + 6	4.78	30.25	+2 - 8
4	4.89	61.12	-3 + 6	2.79	51.76	+6 + 5	2.80	41.32	+6 + 2	4.88	29.91	0 - 9
5	4.79	60.88	0 + 9	2.76	51.40	+6 + 1	2.84	40.93	+6 - 2	4.98	29.57	-3 - 7
6	4.69	60.63	+2 + 10	2.73	51.05	+5 - 3	2.88	40.55	+4 - 6	5.08	29.23	-4 - 3
7	4.60	60.38	+5 + 8	2.70	50.69	+3 - 6	2.92	40.17	+2 - 8	5.19	28.90	-5 + 1
8	4.51	60.13	+6 + 4	2.68	50.33	+1 - 8	2.96	39.78	-1 - 8	5.29	28.57	-4 + 6
9	4.41	59.87	+6 0	2.66	49.97	-2 - 7	3.00	39.40	-3 - 5	5.40	28.24	-2 + 9
10	4.32	59.61	+4 - 4	2.64	49.61	-4 - 4	3.04	39.02	-4 - 1	5.51	27.91	0 + 11
11	4.24	59.34	+2 - 7	2.62	49.25	-4 0	3.09	38.64	-4 + 3	5.62	27.59	+2 + 12
12	4.15	59.07	0 - 8	2.61	48.88	-4 + 4	3.14	38.26	-4 + 7	5.73	27.27	+4 + 10
13	4.07	58.79	-3 - 6	2.60	48.51	-3 + 8	3.19	37.88	-2 + 10	5.85	26.95	+5 + 7
14	4.00	58.51	-4 - 3	2.59	48.14	-1 + 10	3.25	37.50	0 + 11	5.96	26.64	+5 + 3
15	3.92	58.23	-5 + 1	2.58	47.76	+1 + 11	3.31	37.12	+2 + 11	6.08	26.33	+5 - 2
16	3.84	57.94	-4 + 5	2.57	47.39	+3 + 10	3.37	36.75	+4 + 9	6.20	26.02	+4 - 6
17	3.77	57.65	-2 + 9	2.57	47.02	+4 + 7	3.43	36.38	+5 + 5	6.32	25.72	+2 - 9
18	3.70	57.35	0 + 10	2.57	46.64	+5 + 3	3.49	36.00	+5 + 1	6.45	25.42	-1 - 11
19	3.62	57.05	+2 + 10	2.57	46.27	+5 - 1	3.55	35.63	+4 - 4	6.57	25.13	-3 - 11
20	3.55	56.74	+3 + 8	2.57	45.89	+4 - 6	3.62	35.26	+3 - 8	6.70	24.84	-5 - 9
21	3.49	56.43	+5 + 5	2.58	45.51	+2 - 9	3.69	34.89	+1 - 10	6.83	24.55	-6 - 6
22	3.43	56.12	+5 + 1	2.59	45.13	-1 - 11	3.76	34.52	-2 - 12	6.96	24.26	-6 - 1
23	3.37	55.80	+4 - 3	2.60	44.75	-3 - 12	3.83	34.15	-4 - 11	7.09	23.98	-5 + 3
24	3.31	55.48	+3 - 7	2.61	44.37	-5 - 11	3.91	33.79	-6 - 9	7.22	23.70	-3 + 6
25	3.25	55.16	+1 - 10	2.63	43.99	-6 - 8	3.99	33.43	-7 - 5	7.36	23.43	0 + 8
26	3.20	54.83	-2 - 12	2.65	43.61	-7 - 3	4.07	33.07	-6 0	7.49	23.16	+3 + 8
27	3.14	54.50	-4 - 12	2.67	43.23	-6 + 2	4.15	32.71	-4 + 4	7.63	22.89	+5 + 5
28	3.09	54.17	-6 - 10	2.69	42.84	-3 + 6	4.24	32.35	-1 + 7	7.76	22.63	+6 0
29	3.04	53.83	-7 - 6	2.71	42.46	0 + 8	4.32	31.99	+1 + 8	7.90	22.37	+5 - 4
30	2.99	53.49	-6 - 1				4.41	31.64	+4 + 7	8.04	22.11	+3 - 7
31	2.95	53.15	-5 + 4				4.50	31.29	+5 + 3	8.18	21.86	+1 - 9
32	2.91	52.81	-2 + 8				4.59	30.94	+6 - 1			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-81° 44' 20"	6.960	-6.888	-81° 44' 40"	6.964	-6.892	-81° 44' 60"	6.969	-6.897
30	6.962	-6.890	50	6.967	-6.895	70	6.971	-6.899

$$\alpha_{1931.0} = 22^h 39^m 7^s.04$$

$$\delta_{1931.0} = -81^\circ 44' 39''.33$$

*) Tag der doppelten unteren Kulmination: März 2

Si) β Octantis 4^m.34

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	22 ^h 39 ^m	81° 44'	0.01 0.01	22 ^h 39 ^m	81° 44'	0.01 0.01	22 ^h 39 ^m	81° 44'	0.01 0.01	22 ^h 39 ^m	81° 44'	0.01 0.01
		in			in			in			in	
1	8.18	21.86	+1 - 9	13.03	16.39	-5 + 1	17.90	15.85	-1 + 11	21.93	20.19	+5 + 5
2	8.32	21.61	-2 - 8	13.19	16.29	-4 + 6	18.05	15.91	+1 + 11	22.02	20.40	+5 0
3	8.47	21.37	-4 - 5	13.36	16.20	-2 + 9	18.20	15.98	+3 + 10	22.12	20.62	+4 - 4
4	8.61	21.13	-5 - 1	13.52	16.12	0 + 11	18.35	16.06	+5 + 7	22.22	20.84	+2 - 8
5	8.76	20.90	-4 + 4	13.69	16.04	+2 + 11	18.49	16.14	+5 + 3	22.31	21.06	0 - 10
6	8.91	20.67	-3 + 8	13.86	15.96	+4 + 9	18.64	16.23	+5 - 1	22.40	21.28	-2 - 11
7	9.05	20.45	-1 + 11	14.02	15.89	+5 + 6	18.79	16.32	+4 - 6	22.50	21.51	-4 - 11
8	9.20	20.23	+1 + 12	14.19	15.83	+5 + 2	18.93	16.42	+2 - 9	22.59	21.74	-6 - 8
9	9.35	20.01	+3 + 11	14.35	15.77	+5 - 3	19.08	16.52	-1 - 11	22.67	21.98	-6 - 4
10	9.50	19.80	+5 + 8	14.52	15.71	+3 - 7	19.22	16.63	-3 - 11	22.75	22.22	-6 0
11	9.66	19.59	+5 + 4	14.68	15.66	+1 - 10	19.36	16.74	-5 - 10	22.83	22.46	-4 + 4
12	9.81	19.39	+5 0	14.85	15.62	-2 - 11	19.50	16.86	-6 - 6	22.91	22.71	-1 + 7
13	9.97	19.19	+4 - 4	15.01	15.59	-4 - 11	19.64	16.98	-6 - 2	22.99	22.96	+1 + 8
14	10.12	19.00	+2 - 8	15.18	15.56	-5 - 8	19.78	17.11	-5 + 3	23.06	23.21	+4 + 7
15	10.27	18.81	0 - 10	15.34	15.53	-6 - 4	19.91	17.24	-3 + 6	23.13	23.47	+6 + 4
16	10.43	18.63	-2 - 11	15.50	15.51	-6 0	20.05	17.38	0 + 9	23.20	23.73	+6 0
17	10.59	18.45	-4 - 10	15.67	15.50	-4 + 5	20.18	17.52	+3 + 9	23.26	23.99	+5 - 4
18	10.75	18.28	-6 - 7	15.83	15.49	-2 + 8	20.31	17.67	+5 + 7	23.32	24.25	+2 - 7
19	10.91	18.11	-6 - 3	16.00	15.48	+1 + 9	20.44	17.82	+6 + 3	23.38	24.51	0 - 8
20	11.07	17.95	-5 + 2	16.16	15.48	+4 + 8	20.56	17.98	+6 - 2	23.44	24.78	-3 - 7
21	11.23	17.79	-3 + 6	16.33	15.49	+5 + 5	20.69	18.14	+4 - 6	23.49	25.05	-4 - 4
22	11.39	17.64	-1 + 8	16.49	15.50	+6 0	20.81	18.30	+1 - 8	23.54	25.32	-5 + 1
23	11.55	17.49	+2 + 8	16.65	15.52	+5 - 4	20.93	18.47	-1 - 9	23.59	25.59	-4 + 6
24	11.72	17.35	+4 + 6	16.81	15.54	+3 - 8	21.05	18.65	-4 - 6	23.64	25.87	-2 + 9
25	11.88	17.21	+5 + 3	16.96	15.57	0 - 9	21.16	18.83	-5 - 2	23.68	26.15	0 + 12
26	12.04	17.08	+5 - 2	17.12	15.60	-2 - 8	21.28	19.01	-5 + 2	23.72	26.43	+2 + 12
27	12.20	16.95	+4 - 6	17.28	15.64	-4 - 5	21.39	19.19	-4 + 7	23.76	26.71	+4 + 10
28	12.37	16.83	+2 - 9	17.43	15.69	-5 - 1	21.50	19.38	-2 + 10	23.80	26.99	+5 + 7
29	12.53	16.71	-1 - 9	17.59	15.74	-5 + 4	21.61	19.58	+1 + 11	23.83	27.28	+5 + 2
30	12.70	16.60	-3 - 7	17.74	15.79	-3 + 8	21.72	19.78	+3 + 11	23.86	27.57	+5 - 2
31	12.86	16.49	-5 - 4	17.90	15.85	-1 + 11	21.83	19.98	+4 + 8	23.89	27.85	+3 - 6
32	13.03	16.39	-5 + 1				21.93	20.19	+5 + 5	23.91 23.93	28.14 28.43	+1 - 9 -1 - 11

$$\begin{array}{c|c|c|c|c|c}
 \delta & \sec \delta & \operatorname{tg} \delta & \delta & \sec \delta & \operatorname{tg} \delta \\
 \hline
 -81^{\circ} 44' 10'' & 6.957 & -6.885 & -81^{\circ} 44' 20'' & 6.960 & -6.888 \\
 & 20 & 6.960 & & 30 & 6.962 & -6.890
 \end{array}$$

$$\alpha_{1931.0} = 22^{\text{h}} 39^{\text{m}} 7^{\text{s}}.04$$

$$\delta_{1931.0} = -81^{\circ} 44' 39''.33$$

Si) β Octantis 4^m.34

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	22 ^h 39 ^m	81° 44'	^a 0.01 | ^a 0.01	22 ^h 39 ^m	81° 44'	^a 0.01 | ^a 0.01	22 ^h 39 ^m	81° 44'	^a 0.01 | ^a 0.01	22 ^h 39 ^m	81° 44'	^a 0.01 | ^a 0.01
			in			in			in			in
1	^a 23.91 ^a 23.93	^a 28.14 ^a 28.43	+1 - 9 -1 - 11	23.26	37.05	-6 - 7	20.28	43.63	-2 + 6	16.24	45.27	+4 + 5
2	23.95	28.72	-4 - 11	23.20	37.32	-6 - 3	20.16	43.77	+1 + 7	16.10	45.23	+5 + 1
3	23.97	29.01	-5 - 9	23.13	37.58	-6 + 1	20.03	43.91	+3 + 6	15.96	45.18	+5 - 4
4	23.98	29.30	-6 - 6	23.06	37.84	-4 + 5	19.90	44.04	+5 + 3	15.82	45.13	+3 - 8
5	23.99	29.59	-6 - 2	22.99	38.10	-1 + 7	19.78	44.16	+5 - 1	15.69	45.07	+1 - 10
6	24.00	29.89	-5 + 2	22.92	38.35	+2 + 7	19.65	44.28	+4 - 5	15.55	45.00	-2 - 10
7	24.00	30.18	-3 + 6	22.84	38.60	+4 + 5	19.52	44.39	+2 - 9	15.41	44.93	-4 - 8
8	24.00	30.47	0 + 8	22.76	38.85	+5 + 2	19.39	44.50	0 - 10	15.28	44.85	-5 - 3
9	24.00	30.76	+3 + 7	22.68	39.10	+5 - 2	19.26	44.60	-3 - 9	15.14	44.76	-5 + 2
10	23.99	31.06	+5 + 5	22.60	39.34	+4 - 6	19.13	44.69	-4 - 5	15.01	44.67	-4 + 7
11	23.98	31.35	+6 + 1	22.51	39.58	+2 - 9	18.99	44.78	-5 - 1	14.88	44.57	-2 + 11
12	23.97	31.64	+5 - 3	22.42	39.82	-1 - 9	18.86	44.87	-4 + 5	14.74	44.47	+1 + 12
13	23.96	31.93	+3 - 7	22.33	40.05	-3 - 7	18.73	44.95	-3 + 9	14.61	44.36	+3 + 12
14	23.95	32.23	+1 - 8	22.24	40.28	-5 - 3	18.59	45.02	0 + 12	14.48	44.24	+5 + 9
15	23.93	32.52	-2 - 8	22.15	40.50	-5 + 2	18.45	45.08	+2 + 13	14.35	44.12	+6 + 5
16	23.91	32.82	-4 - 5	22.06	40.72	-4 + 7	18.31	45.14	+4 + 11	14.23	43.99	+6 + 1
17	23.88	33.11	-5 - 1	21.96	40.94	-2 + 11	18.17	45.19	+5 + 8	14.10	43.86	+5 - 3
18	23.85	33.40	-4 + 4	21.86	41.15	+1 + 13	18.04	45.24	+6 + 4	13.98	43.72	+3 - 7
19	23.82	33.69	-3 + 9	21.76	41.36	+3 + 12	17.90	45.28	+5 - 1	13.86	43.57	0 - 9
20	23.79	33.98	-1 + 12	21.66	41.56	+5 + 10	17.76	45.31	+4 - 5	13.73	43.42	-2 - 10
21	23.76	34.26	+1 + 12	21.55	41.76	+6 + 6	17.62	45.34	+2 - 8	13.61	43.26	-4 - 9
22	23.72	34.55	+4 + 11	21.44	41.95	+6 + 2	17.49	45.36	0 - 10	13.49	43.10	-6 - 7
23	23.68	34.83	+5 + 8	21.33	42.14	+5 - 2	17.35	45.38	-3 - 10	13.37	42.93	-6 - 3
24	23.64	35.12	+5 + 4	21.22	42.33	+3 - 6	17.21	45.39	-5 - 8	13.25	42.75	-5 + 1
25	23.59	35.40	+5 0	21.11	42.51	+1 - 9	17.07	45.39	-6 - 5	13.14	42.57	-4 + 5
26	23.54	35.68	+4 - 4	21.00	42.69	-1 - 10	16.93	45.39	-6 - 1	13.02	42.38	-1 + 8
27	23.49	35.96	+2 - 8	20.88	42.86	-4 - 10	16.79	45.38	-5 + 3	12.91	42.19	+1 + 8
28	23.44	36.24	0 - 10	20.76	43.02	-5 - 8	16.65	45.36	-3 + 6	12.80	41.99	+4 + 7
29	23.38	36.51	-2 - 11	20.64	43.18	-6 - 4	16.51	45.33	0 + 8	12.69	41.78	+5 + 3
30	23.32	36.78	-5 - 10	20.52	43.34	-6 0	16.37	45.30	+2 + 7	12.58	41.57	+5 - 1
31	23.26	37.05	-6 - 7	20.40	43.49	-5 + 3	16.24	45.27	+4 + 5	12.47	41.36	+4 - 6
32				20.28	43.63	-2 + 6				12.36	41.14	+2 - 9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-81° 44' 20"	6.960	-6.888	-81° 44' 30"	6.962	-6.890	-81° 44' 40"	6.964	-6.892
30	6.962	-6.890	40	6.964	-6.892	50	6.967	-6.895

$$\alpha_{1931.0} = 22^h 39^m 7^s.04$$

$$\delta_{1931.0} = -81^\circ 44' 39''.33$$

Sk) τ Octantis $5^m 56$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	23 ^h 18 ^m	87° 51'	in 0.01 0.01	23 ^h 18 ^m	87° 51'	in 0.01 0.01	23 ^h 18 ^m	87° 51'	in 0.01 0.01	23 ^h 18 ^m	87° 51'	in 0.01 0.01
1	27.67	65.09	-17 - 9	15.14	56.70	-12 + 7	10.50	46.33	- 6 + 8	13.52	34.22	+21 + 1
2	27.16	64.89	-21 - 5	14.86	56.36	- 4 + 9	10.46	45.93	+ 4 + 9	13.76	33.85	+19 - 3
3	26.66	64.69	-21 0	14.58	56.02	+ 8 + 9	10.44	45.54	+13 + 7	14.00	33.48	+13 - 6
4	26.17	64.48	-16 + 5	14.31	55.67	+16 + 7	10.42	45.14	+19 + 4	14.25	33.11	+ 5 - 8
5	25.69	64.27	- 8 + 9	14.05	55.32	+21 + 3	10.41	44.75	+21 0	14.51	32.74	- 5 - 7
6	25.21	64.05	+ 2 +10	13.80	54.97	+20 - 1	10.41	44.35	+18 - 4	14.78	32.38	-13 - 4
7	24.74	63.83	+12 + 9	13.56	54.62	+15 - 5	10.42	43.96	+10 - 7	15.05	32.01	-17 0
8	24.27	63.60	+19 + 6	13.33	54.27	+ 7 - 7	10.44	43.56	+ 1 - 7	15.33	31.65	-18 + 4
9	23.81	63.36	+22 + 2	13.10	53.91	- 2 - 7	10.47	43.17	- 8 - 6	15.62	31.29	-15 + 8
10	23.36	63.12	+19 - 3	12.88	53.55	-11 - 5	10.51	42.77	-15 - 2	15.92	30.93	- 9 +10
11	22.91	62.88	+12 - 6	12.67	53.19	-16 - 1	10.55	42.38	-18 + 2	16.22	30.58	- 1 +11
12	22.47	62.63	+ 3 - 7	12.48	52.82	-18 + 3	10.60	41.98	-17 + 6	16.53	30.23	+ 7 +10
13	22.04	62.37	- 6 - 7	12.29	52.45	-16 + 7	10.66	41.59	-13 + 9	16.85	29.88	+13 + 8
14	21.61	62.11	-14 - 4	12.11	52.08	-11 + 9	10.73	41.19	- 6 +11	17.18	29.54	+17 + 4
15	21.19	61.85	-18 0	11.94	51.71	- 3 +11	10.81	40.80	+ 1 +11	17.52	29.20	+18 0
16	20.77	61.58	-18 + 4	11.78	51.33	+ 4 +10	10.90	40.40	+ 9 + 9	17.86	28.86	+16 - 4
17	20.36	61.31	-14 + 7	11.63	50.96	+11 + 8	11.00	40.01	+14 + 6	18.21	28.52	+12 - 8
18	19.96	61.03	- 8 +10	11.49	50.58	+16 + 4	11.11	39.62	+17 + 2	18.56	28.19	+ 4 -10
19	19.57	60.75	- 1 +10	11.35	50.20	+18 0	11.23	39.23	+18 - 2	18.92	27.86	- 4 -11
20	19.18	60.46	+ 7 + 9	11.22	49.82	+17 - 4	11.36	38.83	+15 - 6	19.29	27.53	-12 -10
21	18.80	60.17	+13 + 6	11.10	49.44	+13 - 8	11.49	38.44	+ 9 -10	19.67	27.21	-18 - 7
22	18.43	59.87	+17 + 3	11.00	49.05	+ 6 -11	11.63	38.05	+ 1 -12	20.05	26.89	-21 - 3
23	18.07	59.57	+18 - 2	10.90	48.66	- 3 -12	11.78	37.66	- 8 -12	20.44	26.57	-19 + 1
24	17.71	59.27	+16 - 6	10.81	48.28	-11 -12	11.94	37.28	-15 -10	20.84	26.26	-14 + 5
25	17.36	58.96	+11 -10	10.73	47.89	-18 - 9	12.11	36.89	-20 - 6	21.24	25.95	- 5 + 8
26	17.02	58.65	+ 3 -12	10.66	47.50	-22 - 5	12.29	36.50	-22 - 2	21.65	25.64	+ 5 + 8
27	16.69	58.33	- 6 -12	10.60	47.11	-21 0	12.47	36.12	-18 + 2	22.06	25.34	+14 + 6
28	16.37	58.01	-14 -11	10.55	46.72	-15 + 4	12.66	35.74	-10 + 6	22.48	25.04	+19 + 2
29	16.05	57.69	-19 - 7	10.50	46.33	- 6 + 8	12.86	35.36	- 1 + 8	22.91	24.74	+20 - 2
30	15.74	57.36	-22 - 3				13.07	34.98	+10 + 7	23.34	24.45	+16 - 6
31	15.43	57.03	-19 + 2				13.29	34.60	+17 + 5	23.78	24.16	+ 8 - 8
32	15.14	56.70	-12 + 7				13.52	34.22	+21 + 1			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
-87° 51' 20"	26.724	-26.706	-87° 51' 40"	26.794	-26.775	-87° 51' 60"	26.864	-26.845
30	26.759	-26.740	50	26.829	-26.810	70	26.899	-26.880

$$\alpha_{1931.0} = 23^h 18^m 26^s.83$$

$$\delta_{1931.0} = -87^\circ 51' 42''.38$$

*) Tag der doppelten unteren Kulmination: März 12

Sk) τ Octantis $5^m.56$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder	AR.	Dekl.	\angle Glieder
	$23^h 18^m$	$87^\circ 51'$	$\begin{smallmatrix} \circ.01 & \circ.01 \\ \text{in} \end{smallmatrix}$	$23^h 18^m$	$87^\circ 51'$	$\begin{smallmatrix} \circ.01 & \circ.01 \\ \text{in} \end{smallmatrix}$	$23^h 18^m$	$87^\circ 51'$	$\begin{smallmatrix} \circ.01 & \circ.01 \\ \text{in} \end{smallmatrix}$	$23^h 19^m$	$87^\circ 51'$	$\begin{smallmatrix} \circ.01 & \circ.01 \\ \text{in} \end{smallmatrix}$
1	23.78	24.16	+ 8 - 8	39.75	17.43	-18 0	57.20	15.66	-10 +10	13.09	19.02	+16 + 6
2	24.23	23.87	- 1 - 8	40.32	17.29	-18 + 4	57.77	15.69	- 2 +11	13.51	19.21	+19 + 2
3	24.68	23.59	-10 - 6	40.89	17.16	-14 + 8	58.34	15.72	+ 6 +10	13.93	19.40	+18 - 2
4	25.13	23.32	-16 - 3	41.46	17.03	- 7 +11	58.91	15.76	+12 + 8	14.34	19.60	+14 - 6
5	25.59	23.05	-19 + 2	42.04	16.91	+ 1 +11	59.47	15.81	+17 + 5	14.74	19.80	+ 8 -10
6	26.06	22.78	-17 + 6	42.62	16.79	+ 8 +10	60.03	15.86	+18 0	15.14	20.01	0 -11
7	26.53	22.51	-12 +10	43.20	16.68	+14 + 7	60.59	15.92	+17 - 4	15.53	20.22	- 8 -11
8	27.01	22.25	- 4 +11	43.78	16.57	+18 + 3	61.14	15.98	+12 - 8	15.91	20.43	-16 -10
9	27.49	22.00	+ 4 +11	44.36	16.47	+18 - 1	61.69	16.05	+ 5 -10	16.28	20.65	-20 - 6
10	27.98	21.75	+11 + 9	44.95	16.37	+15 - 5	62.24	16.12	- 3 -11	16.64	20.87	-21 - 2
11	28.47	21.50	+16 + 6	45.54	16.28	+10 - 9	62.78	16.20	-11 -11	17.00	21.10	-17 + 3
12	28.97	21.26	+18 + 2	46.12	16.19	+ 2 -11	63.32	16.28	-18 - 8	17.35	21.33	-10 + 6
13	29.47	21.02	+18 - 3	46.71	16.11	- 6 -11	63.85	16.37	-21 - 4	17.69	21.56	0 + 8
14	29.98	20.79	+14 - 7	47.29	16.04	-14 - 9	64.38	16.47	-21 + 1	18.02	21.80	+ 9 + 8
15	30.49	20.56	+ 7 -10	47.88	15.97	-19 - 6	64.91	16.57	-15 + 5	18.34	22.04	+17 + 5
16	31.00	20.34	- 1 -11	48.47	15.91	-21 - 2	65.43	16.67	- 6 + 8	18.66	22.28	+21 + 2
17	31.52	20.12	- 9 -11	49.06	15.85	-18 + 3	65.95	16.78	+ 4 + 9	18.97	22.53	+20 - 3
18	32.04	19.91	-16 - 8	49.64	15.80	-12 + 7	66.47	16.90	+13 + 8	19.27	22.78	+14 - 6
19	32.57	19.70	-20 - 5	50.23	15.76	- 2 + 9	66.98	17.02	+19 + 4	19.56	23.03	+ 5 - 8
20	33.10	19.49	-21 0	50.82	15.72	+ 8 + 9	67.49	17.14	+21 0	19.84	23.29	- 5 - 7
21	33.64	19.29	-16 + 4	51.41	15.69	+16 + 6	67.99	17.27	+18 - 4	20.11	23.55	-13 - 5
22	34.18	19.10	- 8 + 8	51.99	15.66	+20 + 2	68.48	17.40	+11 - 7	20.37	23.81	-18 - 1
23	34.72	18.91	+ 2 + 9	52.57	15.64	+20 - 2	68.97	17.54	+ 1 - 8	20.62	24.07	-19 + 4
24	35.27	18.72	+12 + 7	53.16	15.62	+15 - 6	69.45	17.69	- 9 - 7	20.86	24.34	-15 + 8
25	35.82	18.54	+18 + 4	53.74	15.61	+ 7 - 9	69.93	17.84	-16 - 4	21.09	24.61	- 8 +11
26	36.37	18.37	+21 0	54.32	15.60	- 3 - 9	70.40	17.99	-19 + 1	21.31	24.88	0 +12
27	36.93	18.20	+18 - 5	54.90	15.60	-12 - 6	70.86	18.15	-18 + 5	21.53	25.16	+ 8 +10
28	37.49	18.03	+12 - 8	55.48	15.61	-18 - 2	71.32	18.32	-13 + 9	21.74	25.44	+14 + 8
29	38.05	17.87	+ 3 - 9	56.05	15.62	-19 + 2	71.77	18.49	- 5 +11	21.94	25.72	+18 + 4
30	38.61	17.72	- 7 - 8	56.63	15.64	-16 + 7	72.22	18.66	+ 3 +11	22.13	26.00	+18 0
31	39.18	17.57	-14 - 5	57.20	15.66	-10 +10	72.66	18.84	+10 + 9	22.30	26.29	+16 - 5
32	39.75	17.43	-18 0				73.09	19.02	+16 + 6	22.46	26.57	+10 - 8

δ	sec δ	tg δ	δ	sec δ	tg δ
$-87^\circ 51' 10''$	26.690	-26.671	$-87^\circ 51' 20''$	26.724	-26.706
20	26.724	-26.706	30	26.759	-26.740

$$\alpha_{1931.0} = 23^h 18^m 26^s.83$$

$$\delta_{1931.0} = -87^\circ 51' 42''.38$$

Sk) τ Octantis $5^m.56$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder	AR.	Dekl.	Gl. Glieder
	in			in			in			in		
	$23^h 19^m$	$87^\circ 51'$	$0.01 | 0.01$	$23^h 19^m$	$87^\circ 51'$	$0.01 | 0.01$	$23^h 18^m$	$87^\circ 51'$	$0.01 | 0.01$	$23^h 18^m$	$87^\circ 51'$	$0.01 | 0.01$
1	22.46	26.57	+10 - 8	22.26	35.81	-17 - 9	72.29	43.40	-12 + 5	50.49	46.31	+12 + 6
2	22.62	26.86	+3 - 11	22.08	36.10	-21 - 5	71.83	43.58	-3 + 7	55.92	46.31	+18 + 3
3	22.76	27.15	-5 - 11	21.89	36.39	-21 - 1	71.37	43.76	+7 + 7	55.34	46.30	+20 - 2
4	22.89	27.44	-13 - 10	21.69	36.68	-16 + 3	70.90	43.93	+15 + 5	54.77	46.29	+17 - 6
5	23.01	27.74	-19 - 7	21.48	36.96	-9 + 6	70.43	44.09	+20 + 1	54.20	46.27	+10 - 9
6	23.12	28.03	-21 - 4	21.26	37.24	+1 + 7	69.95	44.25	+19 - 4	53.62	46.24	0 - 10
7	23.22	28.33	-20 + 1	21.03	37.52	+11 + 6	69.46	44.40	+14 - 8	53.04	46.21	-9 - 8
8	23.31	28.63	-14 + 5	20.79	37.79	+18 + 3	68.97	44.55	+6 - 10	52.47	46.17	-16 - 5
9	23.39	28.93	-4 + 7	20.54	38.06	+20 - 1	68.47	44.69	-4 - 9	51.90	46.12	-19 0
10	23.46	29.23	+5 + 8	20.28	38.33	+18 - 5	67.97	44.83	-12 - 7	51.32	46.07	-18 + 5
11	$\begin{Bmatrix} 23.51 \\ 23.56 \end{Bmatrix}$	$\begin{Bmatrix} 29.53 \\ 29.83 \end{Bmatrix}$	$\begin{Bmatrix} +14 + 6 \\ +20 + 3 \end{Bmatrix}$	20.02	38.60	+12 - 8	67.46	44.96	-18 - 2	50.75	46.01	-13 + 10
12	23.60	30.14	+21 - 2	19.74	38.87	+2 - 9	66.95	45.09	-19 + 3	50.18	45.95	-5 + 12
13	23.62	30.44	+17 - 5	19.45	39.13	-7 - 7	66.43	45.21	-16 + 8	49.61	45.88	+4 + 12
14	23.64	30.74	+9 - 8	19.15	39.39	-15 - 4	65.90	45.32	-9 + 11	49.04	45.80	+12 + 10
15	23.64	31.04	-1 - 8	18.84	39.65	-18 0	65.37	45.43	-1 + 12	48.48	45.71	+17 + 7
16	23.63	31.34	-10 - 6	18.52	39.90	-18 + 5	64.84	45.53	+7 + 12	47.91	45.62	+19 + 3
17	23.62	31.64	-17 - 2	18.20	40.15	-13 + 10	64.30	45.62	+14 + 9	47.35	45.52	+18 - 2
18	23.59	31.94	-19 + 3	17.86	40.40	-6 + 12	63.76	45.71	+18 + 5	46.79	45.42	+14 - 6
19	23.55	32.24	-17 + 7	17.51	40.64	+2 + 12	63.22	45.79	+19 + 1	46.23	45.31	+7 - 8
20	23.50	32.54	-11 + 10	17.16	40.88	+10 + 11	62.67	45.87	+17 - 3	45.68	45.19	-1 - 10
21	23.44	32.84	-3 + 12	16.80	41.11	+16 + 8	62.12	45.94	+12 - 7	45.13	45.06	-9 - 10
22	23.37	33.14	+5 + 12	16.43	41.34	+19 + 3	61.57	46.01	+5 - 9	44.58	44.93	-15 - 8
23	23.29	33.44	+12 + 9	16.05	41.57	+18 - 1	61.01	46.07	-4 - 10	44.03	44.80	-20 - 4
24	23.20	33.74	+17 + 6	15.66	41.79	+15 - 5	60.45	46.12	-12 - 9	43.49	44.66	-21 0
25	23.10	34.04	+19 + 1	15.27	42.01	+9 - 8	59.89	46.17	-18 - 7	42.95	44.51	-17 + 4
26	22.98	34.34	+17 - 3	14.87	42.22	+1 - 10	59.33	46.21	-21 - 3	42.41	44.36	-10 + 7
27	22.86	34.64	+13 - 7	14.46	42.43	-7 - 10	58.76	46.24	-20 + 1	41.88	44.20	-1 + 8
28	22.72	34.94	+6 - 10	14.04	42.63	-14 - 9	58.20	46.27	-15 + 5	41.35	44.04	+9 + 8
29	22.57	35.23	-2 - 11	13.61	42.83	-19 - 6	57.63	46.29	-7 + 7	40.83	43.87	+16 + 5
30	22.42	35.52	-10 - 11	13.18	43.03	-21 - 2	57.06	46.30	+3 + 8	40.31	43.69	+20 0
31	22.26	35.81	-17 - 9	12.74	43.22	-19 + 2	56.49	46.31	+12 + 6	39.80	43.50	+19 - 4
32				12.29	43.40	-12 + 5				39.29	43.31	+13 - 8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$-87^\circ 51' 20''$	26.724	-26.706	$-87^\circ 51' 30''$	26.759	-26.740	$-87^\circ 51' 40''$	26.794	-26.775
30	26.759	-26.740	40	26.794	-26.775	50	26.829	-26.810

$$\alpha_{1931.0} = 23^h 18^m 26^s.83$$

$$\delta_{1931.0} = -87^\circ 51' 42''.38$$

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl. *)
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5		
1931	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	in 0.01
Jan. 0	-117.18	+68.33	+ 83.93	+852.66	-899.86	-354.33	-229.86	-302.28	+12 0
1	117.20	67.99	83.91	852.32	899.88	354.67	229.72	302.60	+11 + 4
2	117.21	67.65	83.90	851.98	899.89	355.01	229.57	302.92	+ 9 + 8
3	117.22	67.31	83.89	851.64	899.90	355.35	229.42	303.24	+ 4 +11
4	117.22	66.98	83.89	851.30	899.90	355.69	229.27	303.55	- 1 +11
5	-117.21	+66.65	+ 83.90	+850.96	-899.89	-356.03	-229.11	-303.86	- 6 + 8
6	117.20	66.32	83.91	850.62	899.88	356.37	228.94	304.17	- 9 + 4
7	117.18	65.98	83.93	850.28	899.86	356.71	228.77	304.48	-10 - 2
8	117.15	65.65	83.95	849.95	899.83	357.05	228.59	304.79	- 9 7
9	117.12	65.32	83.98	849.62	899.79	357.38	228.40	305.09	- 5 -10
10	-117.08	+64.99	+ 84.02	+849.29	-899.75	-357.71	-228.21	-305.39	- 1 -11
11	117.03	64.66	84.07	848.96	899.71	358.04	228.02	305.69	+ 3 -10
12	116.98	64.33	84.12	848.63	899.66	358.37	227.82	305.99	+ 6 - 6
13	116.93	64.00	84.18	848.31	899.60	358.70	227.61	306.28	+ 7 - 1
14	116.86	63.68	84.24	847.99	899.54	359.02	227.40	306.57	+ 6 + 4
15	-116.79	+63.36	+ 84.31	+847.67	-899.47	-359.34	-227.18	-306.86	+ 4 + 8
16	116.72	63.04	84.39	847.35	899.39	359.66	226.95	307.14	0 +10
17	116.64	62.72	84.47	847.03	899.31	359.98	226.72	307.42	- 4 +10
18	116.55	62.40	84.56	846.71	899.22	360.30	226.48	307.70	- 7 + 8
19	116.45	62.09	84.65	846.40	899.12	360.61	226.24	307.98	- 9 + 5
20	-116.35	+61.78	+ 84.75	+846.09	-899.02	-360.92	-226.00	-308.25	-10 + 1
21	116.24	61.47	84.86	845.78	898.91	361.23	225.75	308.52	- 9 - 4
22	116.12	61.16	84.98	845.48	898.79	361.54	225.49	308.78	- 6 - 7
23	116.00	60.86	85.10	845.18	898.67	361.84	225.23	309.04	- 2 - 9
24	115.88	60.56	85.22	844.88	898.55	362.14	224.97	309.30	+ 2 -10
25	-115.75	+60.26	+ 85.36	+844.58	-898.42	-362.44	-224.70	-309.56	+ 6 - 9
26	115.61	59.97	85.50	844.29	898.28	362.74	224.42	309.81	+10 - 6
27	115.46	59.68	85.65	844.00	898.13	363.03	224.14	310.06	+12 - 2
28	115.31	59.39	85.80	843.71	897.98	363.32	223.86	310.31	+12 + 3
29	115.15	59.11	85.95	843.43	897.83	363.60	223.57	310.55	+11 + 7
30	-114.99	+58.83	+ 86.11	+843.15	-897.67	-363.88	-223.28	-310.79	+ 7 +10
31	114.82	58.56	86.28	842.88	897.50	364.16	222.98	311.02	+ 2 +11
Febr. 1	114.65	58.29	86.45	842.61	897.33	364.43	222.68	311.25	- 3 +10
2	114.47	58.02	86.63	842.34	897.15	364.70	222.38	311.47	- 7 + 6
3	114.29	57.75	86.81	842.07	896.97	364.97	222.07	311.69	- 9 + 1
4	-114.10	+57.49	+ 87.00	+841.81	-896.78	-365.23	-221.76	-311.91	- 9 - 5
5	113.91	57.23	87.19	841.55	896.59	365.49	221.44	312.12	- 7 - 9
6	-113.71	+56.98	+ 87.39	+841.30	-896.39	-365.74	-221.12	-312.33	- 3 -11
Mittl. Ort	- 99.12	+79.29	+101.98	+863.59	-881.77	-343.41	-207.47	-307.47	

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^b Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl.*)		
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5				
1931	x	y	x	y	x	y	x	y	in 0.01		
Febr. 6	-113.71	+56.98	+ 87.39	+841.30	-896.39	-365.74	-221.12	-312.33	- 3	-11	
	113.51	56.73	87.59	841.05	896.18	365.99	220.80	312.53	+ 1	-10	
	113.30	56.48	87.80	840.80	895.97	366.24	220.47	312.73	+ 5	- 7	
	113.09	56.24	88.01	840.56	895.76	366.48	220.14	312.93	+ 7	- 3	
	112.87	56.01	88.23	840.33	895.54	366.71	219.80	313.12	+ 6	+ 2	
	112.65	+55.78	+ 88.45	+840.10	-895.32	-366.94	-219.46	-313.31	+ 4	+ 7	
	112.42	55.55	88.68	839.87	895.09	367.17	219.12	313.49	+ 1	+10	
	112.19	55.33	88.91	839.65	894.86	367.39	218.78	313.67	- 3	+11	
	111.96	55.12	89.14	839.44	894.63	367.60	218.43	313.84	- 7	+ 9	
	111.72	54.91	89.38	839.23	894.39	367.81	218.08	314.01	- 9	+ 6	
	111.48	+54.70	+ 89.62	+839.03	-894.15	-368.01	-217.73	-314.18	-10	+ 2	
	111.23	54.50	89.87	838.83	893.90	368.21	217.37	314.34	- 9	- 2	
	110.98	54.31	90.12	838.64	893.65	368.41	217.01	314.49	- 7	- 6	
	110.72	54.12	90.37	838.45	893.39	368.60	216.65	314.64	- 4	- 9	
	110.46	53.93	90.63	838.27	893.13	368.78	216.29	314.79	0	-10	
	110.20	+53.75	+ 90.89	+838.09	-892.87	-368.96	-215.92	-314.93	+ 5	-10	
	109.94	53.58	91.16	837.92	892.61	369.13	215.55	315.06	+ 9	- 7	
	109.67	53.41	91.43	837.75	892.34	369.30	215.18	315.19	+11	- 4	
	109.40	53.25	91.70	837.59	892.07	369.46	214.81	315.32	+12	+ 1	
	109.12	53.10	91.97	837.43	891.79	369.62	214.43	315.44	+12	+ 5	
	108.84	+52.95	+ 92.25	+837.28	-891.51	-369.77	-214.05	-315.56	+ 9	+ 9	
	108.56	52.81	92.53	837.14	891.23	369.92	213.67	315.67	+ 4	+11	
	108.28	52.67	92.81	837.00	890.95	370.06	213.29	315.78	- 1	+10	
	März 1	107.99	52.54	93.10	836.87	890.66	370.19	212.91	315.88	- 5	+ 7
		107.70	52.41	93.39	836.74	890.37	370.32	212.53	315.98	- 8	+ 3
		107.41	+52.29	+ 93.68	+836.62	-890.08	-370.44	-212.15	-316.07	- 9	- 3
		107.12	52.17	93.97	836.50	889.79	370.56	211.76	316.16	- 7	- 8
		106.83	52.06	94.26	836.39	889.50	370.67	211.37	316.24	- 4	-11
106.53		51.96	94.56	836.29	889.20	370.77	210.98	316.32	0	-11	
106.23		51.86	94.86	836.19	888.90	370.87	210.59	316.39	+ 4	- 9	
105.93		+51.77	+ 95.16	+836.10	-888.60	-370.96	-210.20	-316.46	+ 6	- 5	
105.63		51.69	95.46	836.02	888.30	371.04	209.81	316.52	+ 7	0	
105.33		51.61	95.76	835.94	888.00	371.12	209.42	316.58	+ 5	+ 5	
105.03		51.54	96.06	835.87	887.70	371.19	209.03	316.64	+ 2	+ 9	
104.72		51.47	96.37	835.81	887.40	371.26	208.64	316.69	- 2	+11	
104.41		+51.41	+ 96.68	+835.75	-887.09	-371.32	-208.24	-316.73	- 6	+10	
104.10		51.36	96.99	835.69	886.78	371.37	207.84	316.77	- 9	+ 8	
103.79		+51.31	+ 97.30	+835.65	-886.47	-371.42	-207.44	-316.80	-10	+ 4	
Mittl. Ort	- 99.12	+79.29	+101.98	+863.59	-881.77	-343.41	-207.47	-307.47			

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12ⁿ Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl.°)
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5		
1931	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	in 0.01
März 15	-103.79	+51.31	+ 97.30	+835.65	-886.47	-371.42	-207.44	-316.80	-10 + 4
16	103.48	51.27	97.61	835.61	886.16	371.46	207.04	316.83	-10 0
17	103.17	51.23	97.92	835.57	885.85	371.50	206.64	316.85	- 9 -
18	102.86	51.20	98.23	835.54	885.54	371.53	206.24	316.87	- 6 - 8
19	102.55	51.18	98.54	835.52	885.23	371.55	205.84	316.88	- 2 -10
20	-102.24	+51.17	+ 98.85	+835.51	-884.92	-371.56	-205.44	-316.89	+ 3 -10
21	101.93	51.16	99.16	835.50	884.61	371.57	205.04	316.89	+ 7 - 8
22	101.62	51.16	99.47	835.50	884.30	371.57	204.64	316.89	+10 - 5
23	101.31	51.17	99.78	835.51	883.99	371.56	204.24	316.89	+12 - 1
23	101.00	51.18	100.09	835.52	883.68	371.55	203.84	316.88	+12 + 4
24	-100.69	+51.19	+100.40	+835.53	-883.37	-371.54	-203.45	-316.86	+10 + 8
25	100.38	51.21	100.71	835.55	883.06	371.52	203.06	316.84	+ 6 +10
26	100.08	51.24	101.01	835.58	882.75	371.49	202.67	316.81	+ 1 +11
27	99.77	51.28	101.32	835.62	882.44	371.46	202.27	316.78	- 3 + 9
28	99.47	51.32	101.62	835.66	882.13	371.42	201.88	316.74	- 7 + 4
29	- 99.17	+51.36	+101.92	+835.70	-881.82	-371.37	-201.49	-316.70	- 8 - 1
30	98.87	51.42	102.22	835.76	881.52	371.32	201.10	316.66	- 7 - 6
31	98.57	51.48	102.52	835.82	881.22	371.26	200.71	316.61	- 5 -10
April 1	98.27	51.54	102.82	835.88	880.92	371.19	200.32	316.55	- 1 -11
2	97.97	51.61	103.12	835.95	880.62	371.12	199.93	316.49	+ 3 -10
3	- 97.67	+51.69	+103.42	+836.03	-880.32	-371.05	-199.54	-316.43	+ 6 - 7
4	97.37	51.77	103.72	836.11	880.03	370.97	199.15	316.36	+ 7 - 2
5	97.07	51.86	104.01	836.20	879.74	370.88	198.77	316.28	+ 6 + 3
6	96.78	51.96	104.30	836.30	879.45	370.79	198.38	316.20	+ 4 + 8
7	96.49	52.06	104.59	836.40	879.16	370.69	198.00	316.11	0 +10
8	- 96.21	+52.17	+104.88	+836.51	-878.87	-370.58	-197.62	-316.02	- 5 +11
9	95.93	52.28	105.16	836.62	878.58	370.47	197.24	315.93	- 8 + 9
10	95.65	52.40	105.44	836.74	878.30	370.35	196.86	315.83	-10 + 5
11	95.37	52.52	105.72	836.86	878.02	370.23	196.49	315.73	-11 + 1
12	95.09	52.65	106.00	836.99	877.74	370.10	196.12	315.62	-10 - 3
13	- 94.81	+52.78	+106.27	+837.12	-877.47	-369.97	-195.75	-315.51	- 7 - 7
14	94.54	52.92	106.54	837.26	877.20	369.83	195.38	315.40	- 4 - 9
15	94.27	53.06	106.81	837.40	876.93	369.68	195.01	315.28	+ 1 -10
16	94.01	53.21	107.07	837.55	876.66	369.53	194.64	315.15	+ 5 - 9
17	93.75	53.37	107.33	837.70	876.40	369.38	194.28	315.02	+ 8 - 7
18	- 93.49	+53.53	+107.59	+837.86	-876.14	-369.22	-193.92	-314.89	+11 - 3
19	93.23	53.70	107.85	838.03	875.89	369.05	193.56	314.75	+11 + 2
20	- 92.98	+53.87	+108.10	+838.20	-875.64	-368.88	-193.21	-314.61	+10 + 6
Mittl. Ort	- 99.12	+79.29	+101.98	+863.59	-881.77	-343.41	-207.47	-307.47	

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl.*)	
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5			
1931	x	y	x	y	x	y	x	y	in 0.01	
April 20	-92.98	+53.87	+108.10	+838.20	-875.64	-368.88	-193.21	-314.61	+10	+ 6
21	92.73	54.04	108.35	838.37	875.39	368.71	192.86	314.46	+ 7	+10
22	92.49	54.22	108.59	838.55	875.14	368.53	192.51	314.31	+ 3	+11
23	92.25	54.40	108.83	838.74	874.90	368.34	192.16	314.15	- 2	+10
24	92.01	54.59	109.07	838.93	874.66	368.15	191.82	313.99	- 6	+ 7
25	-91.78	+54.78	+109.30	+839.12	-874.43	-367.96	-191.48	-313.83	- 8	+ 2
26	91.55	54.98	109.53	839.32	874.20	367.76	191.14	313.66	- 8	- 4
27	91.33	55.18	109.75	839.53	873.98	367.56	190.80	313.49	- 6	- 8
28	91.11	55.39	109.97	839.74	873.76	367.35	190.47	313.31	- 2	-11
29	90.89	55.60	110.18	839.95	873.54	367.14	190.14	313.13	+ 2	-11
30	-90.68	+55.82	+110.39	+840.16	-873.33	-366.92	-189.82	-312.94	+ 6	- 8
Mai 1	90.47	56.04	110.60	840.38	873.12	366.70	189.50	312.75	+ 8	- 4
2	90.27	56.26	110.80	840.60	872.92	366.48	189.18	312.56	+ 8	+ 1
3	90.07	56.49	111.00	840.83	872.72	366.25	188.86	312.37	+ 6	+ 6
4	89.88	56.72	111.19	841.06	872.53	366.02	188.55	312.17	+ 2	+10
5	-89.69	+56.96	+111.38	+841.29	-872.34	-365.78	-188.24	-311.97	- 3	+11
6	89.51	57.20	111.56	841.53	872.15	365.55	187.93	311.76	- 7	+10
7	89.33	57.44	111.74	841.78	871.97	365.31	187.63	311.55	-10	+ 7
8	89.15	57.69	111.92	842.03	871.80	365.07	187.33	311.34	-11	+ 3
9	88.98	57.94	112.09	842.28	871.63	364.82	187.04	311.12	-11	- 2
10	-88.82	+58.19	+112.25	+842.53	-871.46	-364.57	-186.75	-310.90	- 9	- 6
11	88.66	58.45	112.41	842.79	871.30	364.31	186.46	310.68	- 5	- 8
12	88.50	58.71	112.56	843.05	871.15	364.05	186.18	310.45	- 1	-10
13	88.35	58.97	112.71	843.31	871.00	363.78	185.90	310.22	+ 3	-10
14	88.21	59.24	112.85	843.57	870.85	363.51	185.63	309.99	+ 7	- 8
15	-88.07	+59.51	+112.99	+843.84	-870.71	-363.24	-185.36	-309.75	+10	- 4
16	87.94	59.78	113.12	844.11	870.57	362.97	185.10	309.51	+11	0
17	87.81	60.06	113.25	844.39	870.44	362.69	184.84	309.26	+10	+ 5
18	87.69	60.34	113.37	844.67	870.32	362.41	184.58	309.01	+ 8	+ 9
19	87.57	60.62	113.49	844.95	870.20	362.13	184.33	308.76	+ 4	+11
20	-87.46	+60.90	+113.60	+845.23	-870.09	-361.85	-184.08	-308.51	- 1	+11
21	87.35	61.18	113.71	845.51	869.98	361.57	183.84	308.25	- 5	+ 8
22	87.25	61.47	113.81	845.79	869.88	361.29	183.60	307.99	- 8	+ 4
23	87.16	61.76	113.90	846.08	869.78	361.00	183.37	307.73	- 9	- 2
24	87.07	62.05	113.99	846.37	869.69	360.71	183.14	307.47	- 7	- 7
25	-86.98	+62.34	+114.08	+846.66	-869.61	-360.42	-182.91	-307.20	- 4	-10
26	86.90	62.63	114.16	846.95	869.53	360.13	182.69	306.93	+ 1	-11
27	-86.83	+62.93	+114.23	+847.24	-869.46	-359.83	-182.48	-306.66	+ 5	-10
Mittl. Ort	-99.12	+79.29	+101.98	+863.59	-881.77	-343.41	-207.47	-307.47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl.*)		
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5				
1931	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	in 0.01		
Mai	27	-86.83	+62.93	+114.23	+847.24	-869.46	-359.83	-182.48	-306.66	+ 5	-10
	28	86.76	63.23	114.30	847.54	869.39	359.53	182.27	306.38	+ 8	- 6
	29	86.70	63.53	114.36	847.84	869.33	359.23	182.06	306.10	+ 9	- 1
	30	86.64	63.83	114.42	848.14	869.27	358.93	181.86	305.82	+ 7	+ 4
	31	86.59	64.13	114.47	848.44	869.22	358.63	181.67	305.54	+ 4	+ 9
Juni	1	-86.54	+64.43	+114.51	+848.74	-869.17	-358.33	-181.48	-305.26	0	+11
	2	86.50	64.73	114.55	849.05	869.13	358.03	181.29	304.97	- 5	+10
	3	86.47	65.04	114.58	849.36	869.10	357.72	181.11	304.69	- 8	+ 8
	4	86.44	65.35	114.61	849.67	869.07	357.41	180.94	304.40	-10	+ 4
	5	86.42	65.66	114.63	849.98	869.05	357.11	180.77	304.11	-11	0
	6	-86.40	+65.97	+114.65	+850.29	-869.03	-356.80	-180.61	-303.81	- 9	- 4
	7	86.39	66.28	114.66	850.60	869.02	356.49	180.45	303.51	- 7	- 8
	8	86.39	66.59	114.66	850.91	869.01	356.18	180.29	303.21	- 3	-10
	9	86.39	66.90	114.66	851.22	869.01	355.87	180.14	302.91	+ 2	-10
	10	86.40	67.21	114.65	851.53	869.02	355.56	180.00	302.61	+ 6	- 9
	11	-86.41	+67.52	+114.64	+851.84	-869.03	-355.25	-179.86	-302.31	+ 9	- 6
	12	86.43	67.83	114.62	852.15	869.05	354.94	179.73	302.01	+11	- 2
	13	86.45	68.14	114.59	852.46	869.07	354.62	179.60	301.71	+11	+ 3
	14	86.48	68.46	114.56	852.77	869.10	354.30	179.48	301.41	+ 9	+ 7
	15	86.52	68.78	114.52	853.09	869.13	353.98	179.36	301.10	+ 6	+10
	16	-86.56	+69.09	+114.48	+853.40	-869.17	-353.67	-179.25	-300.79	+ 1	+11
	17	86.60	69.40	114.44	853.71	869.22	353.36	179.14	300.48	- 4	+ 9
	18	86.66	69.71	114.38	854.02	869.27	353.05	179.04	300.17	- 7	+ 6
	19	86.72	70.02	114.32	854.33	869.33	352.74	178.95	299.86	- 9	+ 1
	20	86.78	70.33	114.26	854.64	869.40	352.43	178.86	299.55	- 8	- 5
	21	-86.85	+70.64	+114.19	+854.95	-869.47	-352.12	-178.77	-299.24	- 6	- 9
	22	86.93	70.95	114.11	855.26	869.54	351.81	178.70	298.93	- 2	-11
	23	87.01	71.26	114.03	855.57	869.62	351.50	178.63	298.62	+ 3	-11
	24	87.10	71.57	113.94	855.88	869.71	351.19	178.56	298.30	+ 6	- 8
	25	87.19	71.88	113.84	856.19	869.80	350.88	178.50	297.99	+ 8	- 3
	26	-87.29	+72.19	+113.74	+856.50	-869.90	-350.57	-178.44	-297.67	+ 8	+ 2
	27	87.40	72.50	113.64	856.81	870.00	350.27	178.39	297.36	+ 6	+ 7
	28	87.51	72.80	113.53	857.11	870.11	349.97	178.35	297.04	+ 2	+10
	29	87.62	73.10	113.41	857.41	870.22	349.67	178.31	296.73	- 3	+11
	30	87.74	73.40	113.29	857.71	870.34	349.37	178.28	296.41	- 7	+ 9
Juli	1	-87.87	+73.70	+113.17	+858.01	-870.47	-349.07	-178.25	-296.10	-10	+ 6
	2	88.00	74.00	113.04	858.31	870.60	348.77	178.23	295.78	-11	+ 2
	3	-88.13	+74.30	+112.90	+858.61	-870.73	-348.47	-178.22	-295.47	-10	- 3
Mittl. Ort	-99.12	+79.29	+101.98	+863.59	-881.77	-343.41	-207.47	-307.47			

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl. *)			
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5					
1931	x	y	x	y	x	y	x	y	in 0.01			
Juli	3	-88.13	+74.30	+112.90	+858.61	-870.73	-348.47	-178.22	-295.47	-10	-3	
	4	88.27	74.60	112.76	858.91	870.87	348.17	178.21	295.15	-8	-7	
	5	88.42	74.90	112.61	859.21	871.02	347.87	178.21	294.84	-4	-9	
	6	88.57	75.19	112.46	859.50	871.17	347.58	178.21	294.53	0	-10	
	7	88.73	75.48	112.30	859.79	871.32	347.29	178.22	294.22	+4	-9	
	8	-88.89	+75.77	+112.14	+860.08	-871.48	-347.00	-178.23	-293.91	+8	-7	
	9	89.06	76.06	111.97	860.37	871.65	346.71	178.25	293.60	+11	-3	
	10	89.23	76.35	111.80	860.66	871.82	346.42	178.27	293.29	+11	+1	
	11	89.41	76.63	111.62	860.94	872.00	346.14	178.30	292.98	+10	+6	
	12	89.59	76.91	111.43	861.22	872.18	345.86	178.34	292.67	+8	+9	
	13	-89.78	+77.19	+111.24	+861.50	-872.37	-345.58	-178.39	-292.36	+4	+11	
	14	89.97	77.47	111.05	861.78	872.56	345.30	178.44	292.06	-1	+10	
	15	90.17	77.75	110.85	862.06	872.76	345.02	178.50	291.76	-6	+7	
	16	90.37	78.02	110.64	862.33	872.96	344.75	178.56	291.46	-9	+3	
	17	90.58	78.29	110.43	862.60	873.17	344.48	178.62	291.16	-9	-3	
	18	-90.79	+78.56	+110.22	+862.87	-873.38	-344.21	-178.69	-290.86	-7	-8	
	19	91.01	78.83	110.00	863.14	873.60	343.94	178.77	290.56	-4	-11	
	20	91.23	79.09	109.78	863.40	873.82	343.68	178.85	290.27	+1	-11	
	21	91.46	79.35	109.55	863.66	874.04	343.42	178.94	289.98	+5	-9	
	22	91.69	79.61	109.32	863.92	874.27	343.16	179.03	289.69	+7	-5	
	23	-91.92	+79.87	+109.09	+864.17	-874.50	-342.90	-179.13	-289.40	+8	0	
	24	92.16	80.12	108.85	864.42	874.74	342.65	179.23	289.11	+6	+5	
	25	92.40	80.37	108.61	864.67	874.98	342.40	179.34	288.83	+3	+9	
	26	92.65	80.62	108.36	864.92	875.23	342.15	179.45	288.55	-1	+11	
	27	92.90	80.86	108.11	865.16	875.48	341.91	179.57	288.27	-6	+10	
	28	-93.16	+81.10	+107.85	+865.40	-875.74	-341.67	-179.70	-287.99	-9	+7	
	29	93.42	81.34	107.59	865.64	876.00	341.43	179.83	287.72	-11	+4	
	30	93.69	81.58	107.32	865.88	876.27	341.20	179.96	287.45	-10	-1	
	31	93.96	81.81	107.05	866.11	876.54	340.97	180.10	287.18	-9	-5	
	Aug.	1	94.23	82.04	106.77	866.34	876.81	340.74	180.25	286.91	-6	-8
		2	-94.51	+82.26	+106.49	+866.56	-877.09	-340.52	-180.40	-286.65	-1	-10
3		94.79	82.48	106.21	866.78	877.37	340.30	180.55	286.39	+3	-10	
4		95.08	82.70	105.92	867.00	877.66	340.08	180.71	286.14	+7	-8	
5		95.37	82.91	105.63	867.21	877.94	339.87	180.88	285.89	+10	-5	
6		95.66	83.12	105.34	867.42	878.23	339.66	181.05	285.64	+12	-1	
7		-95.96	+83.33	+105.04	+867.63	-878.53	-339.45	-181.22	-285.39	+11	+4	
8		96.26	83.53	104.74	867.83	878.83	339.25	181.40	285.15	+9	+8	
9		-96.56	+83.73	+104.44	+868.03	-879.13	-339.05	-181.58	-284.91	+6	+10	
Mittl. Ort	-99.12	+79.29	+101.98	+863.59	-881.77	-343.41	-207.47	-307.47				

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl.*)			
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5					
1931	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	in 0.01			
Aug.	9	— 96.56	+83.73	+104.44	+868.03	—879.13	—339.05	—181.58	—284.91	+ 6	+10	
	10	96.87	83.93	104.13	868.23	879.44	338.85	181.77	284.68	+ 1	+11	
	11	97.18	84.12	103.82	868.42	879.75	338.66	181.96	284.45	— 4	+ 8	
	12	97.49	84.31	103.51	868.61	880.06	338.47	182.16	284.22	— 7	+ 5	
	13	97.81	84.50	103.19	868.80	880.38	338.29	182.36	284.00	— 9	— 1	
	14	— 98.13	+84.68	+102.87	+868.98	—880.70	—338.11	—182.57	—283.78	— 8	— 6	
	15	98.45	84.86	102.54	869.16	881.02	337.93	182.78	283.57	— 5	—10	
	16	98.78	85.03	102.21	869.33	881.35	337.75	182.99	283.36	— 1	—11	
	17	99.11	85.20	101.88	869.50	881.68	337.58	183.21	283.15	+ 3	—10	
	18	99.44	85.37	101.55	869.67	882.01	337.41	183.43	282.95	+ 6	— 7	
	19	— 99.78	+85.53	+101.21	+869.83	—882.34	—337.25	—183.66	—282.75	+ 8	— 2	
	20	100.12	85.69	100.87	869.99	882.68	337.09	183.89	282.56	+ 7	+ 4	
	21	100.46	85.84	100.53	870.14	883.02	336.94	184.13	282.37	+ 4	+ 8	
	22	100.80	85.99	100.19	870.29	883.36	336.79	184.37	282.18	0	+11	
	23	101.15	86.13	99.84	870.43	883.71	336.65	184.61	282.00	— 5	+11	
	24	—101.50	+86.27	+ 99.49	+870.57	—884.06	—336.51	—184.85	—281.83	— 8	+ 9	
	25	101.85	86.41	99.14	870.71	884.41	336.37	185.10	281.66	—11	+ 5	
	26	102.20	86.54	98.78	870.84	884.77	336.24	185.35	281.49	—11	+ 1	
	27	102.56	86.67	98.42	870.97	885.13	336.11	185.61	281.33	—10	— 4	
	28	102.92	86.79	98.06	871.09	885.49	335.99	185.87	281.18	— 7	— 7	
	29	—103.28	+86.91	+ 97.70	+871.21	—885.85	—335.87	—186.13	—281.03	— 3	—10	
	30	103.64	87.03	97.34	871.33	886.21	335.75	186.39	280.88	+ 1	—10	
	31	104.01	87.14	96.98	871.44	886.57	335.64	186.66	280.74	+ 5	— 9	
	Sept.	1	104.38	87.25	96.61	871.55	886.94	335.53	186.93	280.61	+ 9	— 6
		2	104.75	87.35	96.24	871.65	887.31	335.43	187.21	280.48	+11	— 2
		3	—105.12	+87.45	+ 95.87	+871.75	—887.68	—335.33	—187.49	—280.36	+12	+ 2
		4	105.50	87.54	95.49	871.84	888.05	335.24	187.77	280.24	+10	+ 7
		5	105.88	87.63	95.11	871.93	888.43	335.15	188.05	280.12	+ 7	+10
6		106.26	87.71	94.73	872.01	888.81	335.07	188.33	280.02	+ 3	+11	
7		106.64	87.79	94.35	872.09	889.19	334.99	188.61	279.92	— 1	+10	
8		—107.02	+87.86	+ 93.97	+872.16	—889.57	—334.92	—188.90	—279.82	— 5	+ 6	
9		107.40	87.93	93.59	872.23	889.95	334.85	189.19	279.73	— 7	+ 1	
10		107.78	88.00	93.21	872.30	890.33	334.79	189.48	279.65	— 8	— 4	
11		108.16	88.06	92.83	872.36	890.71	334.73	189.77	279.57	— 6	— 8	
12		108.54	88.12	92.45	872.42	891.09	334.67	190.06	279.50	— 2	—11	
13		—108.92	+88.17	+ 92.07	+872.47	—891.47	—334.62	—190.35	—279.43	+ 2	—11	
14		109.31	88.22	91.68	872.51	891.86	334.57	190.65	279.37	+ 5	— 8	
15		—109.70	+88.26	+ 91.29	+872.55	—892.25	—334.53	—190.95	—279.32	+ 7	— 4	
Mittl. Ort	— 99.12	+79.29	+101.98	+863.59	—881.77	—343.41	—207.47	—307.47				

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl. *)	
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5			
1931	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	in 0.01	
Sept. 15	-109.70	+88.26	+ 91.29	+872.55	-892.25	-334.53	-190.95	-279.32	+ 7	- 4
16	110.09	88.30	90.90	872.59	892.64	334.49	191.25	279.27	+ 7	+ 2
17	110.48	88.33	90.51	872.62	893.03	334.46	191.55	279.23	+ 5	+ 7
18	110.87	88.36	90.12	872.65	893.42	334.43	191.85	279.19	+ 1	+10
19	111.26	88.38	89.73	872.67	893.81	334.41	192.15	279.16	- 3	+11
20	-111.65	+88.40	+ 89.34	+872.69	-894.20	-334.39	-192.45	-279.13	- 7	+10
21	112.04	88.41	88.95	872.71	894.59	334.38	192.76	279.11	-10	+ 6
22	112.43	88.42	88.56	872.72	894.98	334.37	193.07	279.10	-12	+ 2
23	112.83	88.42	88.17	872.73	895.38	334.36	193.37	279.09	-11	- 2
24	113.23	88.42	87.77	872.73	895.78	334.36	193.67	279.09	- 9	- 6
25	-113.62	+88.42	+ 87.37	+872.72	-896.17	-334.37	-193.97	-279.10	- 5	- 9
26	114.01	88.41	86.97	872.71	896.56	334.38	194.27	279.11	- 1	-10
27	114.40	88.39	86.58	872.70	896.95	334.39	194.57	279.13	+ 3	- 9
28	114.79	88.37	86.19	872.68	897.34	334.41	194.87	279.16	+ 7	- 7
29	115.18	88.35	85.80	872.65	897.73	334.44	195.18	279.19	+10	- 4
Okt. 30	-115.57	+88.32	+ 85.41	+872.62	-898.12	-334.47	-195.49	-279.22	+11	+ 1
1	115.96	88.28	85.02	872.59	898.51	334.50	195.80	279.26	+11	+ 5
2	116.35	88.24	84.63	872.55	898.90	334.54	196.11	279.31	+ 8	+ 9
3	116.74	88.20	84.24	872.51	899.29	334.58	196.41	279.36	+ 5	+11
4	117.13	88.15	83.85	872.46	899.68	334.63	196.71	279.42	+ 1	+10
5	-117.52	+88.10	+ 83.46	+872.40	-900.07	-334.68	-197.01	-279.49	- 3	+ 8
6	117.91	88.04	83.07	872.34	900.46	334.74	197.31	279.56	- 6	+ 4
7	118.30	87.98	82.68	872.28	900.85	334.80	197.61	279.64	- 7	- 2
8	118.69	87.91	82.29	872.21	901.24	334.87	197.91	279.73	- 6	- 7
9	119.08	87.83	81.90	872.13	901.63	334.95	198.20	279.82	- 3	-10
10	-119.47	+87.75	+ 81.51	+872.05	-902.02	-335.03	-198.49	-279.91	+ 1	-11
11	119.85	87.67	81.13	871.97	902.40	335.11	198.78	280.01	+ 5	-10
12	120.23	87.58	80.75	871.88	902.78	335.20	199.07	280.12	+ 8	- 6
13	120.61	87.49	80.37	871.79	903.16	335.29	199.36	280.23	+ 8	- 1
14	120.99	87.39	79.99	871.69	903.54	335.39	199.65	280.35	+ 7	+ 5
15	-121.37	+87.29	+ 79.61	+871.59	-903.92	-335.49	-199.93	-280.48	+ 3	+ 9
16	121.75	87.18	79.23	871.48	904.30	335.60	200.21	280.61	- 1	+11
17	122.13	87.07	78.85	871.37	904.68	335.71	200.49	280.75	- 6	+10
18	122.50	86.96	78.48	871.25	905.05	335.83	200.76	280.89	-10	+ 8
19	122.87	86.84	78.11	871.13	905.42	335.96	201.03	281.04	-12	+ 4
20	-123.24	+86.71	+ 77.74	+871.00	-905.79	-336.09	-201.30	-281.19	-12	- 1
21	123.61	86.58	77.37	870.87	906.16	336.22	201.57	281.35	-10	- 5
22	-123.97	+86.44	+ 77.00	+870.74	-906.52	-336.36	-201.83	-281.52	- 7	- 8
Mittl. Ort	- 99.12	+79.29	+101.98	+863.59	-881.77	-343.41	-207.47	-307.47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl.°)	
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5			
1931	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	in 2.01	
Okt. 22	-123.97	+86.44	+ 77.00	+870.74	-906.52	-336.36	-201.83	-281.52	- 7	- 8
23	124.33	86.30	76.64	870.60	906.88	336.50	202.09	281.69	- 3	-10
24	124.69	86.15	76.28	870.45	907.24	336.65	202.34	281.87	+ 1	-10
25	125.05	86.00	75.92	870.30	907.60	336.80	202.59	282.05	+ 5	- 8
26	125.41	85.85	75.56	870.15	907.96	336.96	202.84	282.24	+ 9	- 5
27	-125.76	+85.69	+ 75.21	+869.99	-908.31	-337.12	-203.09	-282.43	+10	- 1
28	126.11	85.53	74.86	869.83	908.66	337.28	203.33	282.62	+10	+ 3
29	126.46	85.36	74.51	869.66	909.01	337.45	203.57	282.82	+ 9	+ 7
30	126.81	85.19	74.16	869.49	909.36	337.62	203.80	283.03	+ 6	+10
31	127.15	85.01	73.82	869.32	909.70	337.80	204.03	283.24	+ 2	+11
Nov. 1	-127.49	+84.83	+ 73.48	+869.14	-910.04	-337.98	-204.26	-283.46	- 2	+ 9
2	127.83	84.64	73.14	868.96	910.38	338.17	204.48	283.68	- 6	+ 6
3	128.16	84.45	72.81	868.77	910.71	338.36	204.70	283.91	- 7	+ 1
4	128.49	84.26	72.48	868.58	911.04	338.55	204.92	284.14	- 7	- 5
5	128.82	84.06	72.15	868.38	911.37	338.75	205.13	284.38	- 4	- 9
6	-129.14	+83.86	+ 71.83	+868.18	-911.69	-338.95	-205.33	-284.62	0	-11
7	129.46	83.65	71.51	867.97	912.01	339.16	205.53	284.86	+ 4	-11
8	129.78	83.44	71.19	867.76	912.33	339.37	205.72	285.11	+ 8	- 8
9	130.09	83.22	70.88	867.54	912.64	339.59	205.91	285.36	+ 9	- 3
10	130.40	83.00	70.57	867.32	912.95	339.81	206.09	285.62	+ 8	+ 3
11	-130.71	+82.78	+ 70.26	+867.10	-913.25	-340.03	-206.27	-285.88	+ 6	+ 7
12	131.01	82.55	69.96	866.87	913.55	340.26	206.45	286.14	+ 1	+10
13	131.31	82.32	69.66	866.64	913.85	340.49	206.62	286.41	- 4	+11
14	131.60	82.08	69.37	866.40	914.14	340.73	206.78	286.68	- 8	+ 9
15	131.89	81.84	69.08	866.16	914.43	340.97	206.94	286.96	-11	+ 6
16	-132.17	+81.60	+ 68.79	+865.92	-914.72	-341.21	-207.09	-287.24	-12	+ 1
17	132.45	81.36	68.51	865.68	915.00	341.46	207.23	287.52	-11	- 3
18	132.73	81.11	68.23	865.43	915.28	341.71	207.37	287.81	- 9	- 7
19	133.00	80.86	67.96	865.18	915.55	341.96	207.51	288.10	- 5	-10
20	133.27	80.60	67.69	864.92	915.82	342.22	207.64	288.39	0	-10
21	-133.53	+80.34	+ 67.43	+864.66	-916.08	-342.48	-207.76	-288.69	+ 4	- 9
22	133.79	80.07	67.17	864.39	916.34	342.74	207.88	288.99	+ 7	- 7
23	134.04	79.80	66.92	864.12	916.59	343.01	207.99	289.29	+10	- 3
24	134.29	79.53	66.67	863.85	916.84	343.28	208.09	289.60	+10	+ 2
25	134.53	79.26	66.43	863.58	917.08	343.56	208.19	289.91	+ 9	+ 6
26	-134.77	+78.98	+ 66.19	+863.30	-917.32	-343.84	-208.28	-290.22	+ 7	+ 9
27	135.00	78.70	65.96	863.02	917.55	344.12	208.37	290.53	+ 3	+11
28	-135.23	+78.42	+ 65.73	+862.74	-917.78	-344.40	-208.45	-290.84	- 1	+10
Mittl. Ort	- 99.12	+79.29	+101.98	+863.59	-881.77	-343.41	-207.47	-307.47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1		BD +89° 3		BD +89° 37		CPD -89° 38		Kurzperiod. Mondgl.ⁱ)	
	Gr. 10.56		Gr. 9.06		Gr. 10.06		Gr. 9.5			
1931	x	y	x	y	x	y	x	y	in 0.01	
Nov. 28	-135.23	+78.42	+ 65.73	+862.74	-917.78	-344.40	-208.45	-290.84	- 1	+10
29	135.45	78.13	65.51	862.45	918.00	344.69	208.53	291.15	- 5	+ 7
30	135.67	77.84	65.29	862.16	918.22	344.98	208.60	291.47	- 7	+ 3
Dez. 1	135.88	77.55	65.08	861.87	918.43	345.28	208.66	291.79	- 8	- 3
2	136.09	77.25	64.87	861.57	918.64	345.58	208.72	292.11	- 6	- 8
3	-136.29	+76.95	+ 64.67	+861.27	-918.84	-345.88	-208.77	-292.43	- 2	-11
4	136.48	76.65	64.47	860.97	919.03	346.18	208.81	292.76	+ 2	-11
5	136.67	76.35	64.28	860.67	919.22	346.49	208.85	293.09	+ 6	- 9
6	136.86	76.04	64.10	860.37	919.41	346.80	208.88	293.42	+ 9	- 5
7	137.04	75.73	63.92	860.06	919.59	347.11	208.90	293.75	+ 9	0
8	-137.21	+75.42	+ 63.74	+859.75	-919.76	-347.42	-208.92	-294.08	+ 8	+ 6
9	137.38	75.11	63.58	859.44	919.93	347.73	208.93	294.41	+ 4	+10
10	137.54	74.80	63.42	859.13	920.09	348.04	208.93	294.74	- 1	+11
11	137.69	74.48	63.26	858.81	920.24	348.36	208.93	295.07	- 6	+10
12	137.84	74.16	63.11	858.49	920.39	348.68	208.92	295.40	-10	+ 7
13	-137.98	+73.84	+ 62.96	+858.17	-920.54	-349.00	-208.91	-295.74	-12	+ 3
14	138.12	73.52	62.82	857.85	920.68	349.32	208.89	296.07	-12	- 2
15	138.25	73.20	62.69	857.53	920.81	349.65	208.86	296.41	-10	- 6
16	138.37	72.87	62.57	857.21	920.93	349.98	208.82	296.74	- 6	- 9
17	138.49	72.54	62.45	856.88	921.05	350.31	208.78	297.08	- 2	-10
18	-138.61	+72.21	+ 62.34	+856.55	-921.16	-350.64	-208.73	-297.41	+ 2	-10
19	138.71	71.88	62.23	856.22	921.27	350.97	208.68	297.74	+ 6	- 8
20	138.81	71.55	62.13	855.89	921.37	351.30	208.62	298.08	+ 9	- 4
21	138.91	71.22	62.04	855.56	921.46	351.63	208.55	298.41	+10	0
22	139.00	70.89	61.95	855.23	921.55	351.96	208.48	298.74	+10	+ 4
23	-139.08	+70.56	+ 61.87	+854.90	-921.63	-352.29	-208.40	-299.07	+ 8	+ 8
24	139.15	70.23	61.80	854.57	921.70	352.62	208.31	299.40	+ 4	+10
25	139.22	69.90	61.73	854.24	921.77	352.95	208.22	299.73	0	+10
26	139.28	69.57	61.67	853.91	921.83	353.28	208.12	300.06	- 4	+ 8
27	139.33	69.23	61.61	853.58	921.88	353.62	208.02	300.39	- 7	+ 5
28	-139.38	+68.89	+ 61.56	+853.24	-921.93	-353.96	-207.91	-300.72	- 8	- 1
29	139.42	68.55	61.52	852.90	921.97	354.30	207.79	301.05	- 7	- 6
30	139.45	68.21	61.49	852.56	922.00	354.64	207.66	301.38	- 4	-10
31	139.48	67.87	61.46	852.22	922.03	354.98	207.53	301.70	0	-11
32	-139.50	+67.53	+ 61.44	+851.88	-922.05	-355.32	-207.39	-302.02	+ 5	-10
Mittl. Ort	- 99.12	+79.29	+101.98	+863.59	-881.77	-343.41	-207.47	-307.47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34215 + 0.00031 T) \sin \Omega + 0.00415 \sin 2 \Omega - 0.02526 \sin 2 L_{\odot} \\ + 0.00251 \sin M_{\odot} - 0.00099 \sin (2 L_{\odot} + M_{\odot}) + 0.00042 \sin (2 L_{\odot} - M_{\odot}) \\ + 0.00025 \sin (2 L_{\odot} - \Omega)$$

$$A' = -0.00405 \sin 2 L_{\odot} + 0.00135 \sin M_{\odot} - 0.00068 \sin (2 L_{\odot} - \Omega) \\ - 0.00052 \sin (2 L_{\odot} + M_{\odot}) + 0.00030 \sin (2 L_{\odot} - 2 L_{\odot} - M_{\odot}) \\ + 0.00023 \sin (2 L_{\odot} - M_{\odot}) + 0.00012 \sin (2 L_{\odot} - 2 L_{\odot})$$

$$B = -(9''.210 + 0''.001 T) \cos \Omega + 0''.090 \cos 2 \Omega - 0''.551 \cos 2 L_{\odot} \\ - 0''.022 \cos (2 L_{\odot} + M_{\odot}) + 0''.009 \cos (2 L_{\odot} - M_{\odot}) \\ + 0''.007 \cos (2 L_{\odot} - \Omega)$$

$$B' = -0''.089 \cos 2 L_{\odot} - 0''.018 \cos (2 L_{\odot} - \Omega) - 0''.011 \cos (2 L_{\odot} + M_{\odot}) \\ + 0''.005 \cos (2 L_{\odot} - M_{\odot})$$

$$C = -20''.47 \cos \odot \cos \varepsilon$$

$$D = -20''.47 \sin \odot$$

$$E = -(0''.0029 - 0''.0004 T) \sin \Omega$$

T Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren

t Zeit seit Beginn des annus fictus in Bruchteilen des tropischen Jahres

$t = 0$ für 1931 Januar 1.3216^d

$a = m + \frac{1}{15} n \sin \alpha \operatorname{tg} \delta$	$a' = n \cos \alpha$
$b = \frac{1}{15} \cos \alpha \operatorname{tg} \delta$	$b' = -\sin \alpha$
$c = \frac{1}{15} \cos \alpha \sec \delta$	$c' = \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta$
$d = \frac{1}{15} \sin \alpha \sec \delta$	$d' = \cos \alpha \sin \delta$

Für 1931.0 gilt: $m = +3^{\circ}.0729$, $n = +20''.044$, $\varepsilon = 23^{\circ} 26' 53''.74$

$$\alpha_{\text{app.}} = \alpha_{1931.0} + t \mu_{\alpha} + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$

$$\delta_{\text{app.}} = \delta_{1931.0} + t \mu_{\delta} + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

μ_{α} , μ_{δ} jährliche Eigenbewegung in Rektaszension, bez. Deklination

Setzt man

$f = mA + E$	$f' = mA'$	$i = C \operatorname{tg} \varepsilon$
$g \sin G = B$	$g' \sin G' = B'$	$h \sin H = C$
$g \cos G = nA$	$g' \cos G' = nA'$	$h \cos H = D$

so wird:

$$\alpha_{\text{app.}} = \alpha_{1931.0} + t \mu_{\alpha} + f' + \frac{1}{15} g \sin (G + \alpha) \operatorname{tg} \delta + \frac{1}{15} h \sin (H + \alpha) \sec \delta \\ + [f' + \frac{1}{15} g' \sin (G' + \alpha) \operatorname{tg} \delta]$$

$$\delta_{\text{app.}} = \delta_{1931.0} + t \mu_{\delta} + g \cos (G + \alpha) + h \cos (H + \alpha) \sin \delta + i \cos \delta \\ + [g' \cos (G' + \alpha)]$$

Reduktionsgrößen 1931

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für 12^b Sternzeit Greenwich

Welt-Zeit	<i>t</i>	log <i>A</i>	log <i>B</i>	log <i>C</i>	log <i>D</i>	<i>E</i>
1931						
Jan. 1.2	-0.0003	9.01611 _n	0.90757 _n	0.50691 _n	1.30466	-0.0009
11.2	+0.0270	8.81544 _n	0.91429 _n	0.80801 _n	1.28409	8
21.2	0.0543	8.46240 _n	0.92345 _n	0.97483 _n	1.24790	8
31.1	0.0816	7.66276	0.93420 _n	1.08450 _n	1.19340	8
Febr. 10.1	0.1089	8.54518	0.94507 _n	1.16056 _n	1.11541	8
20.1	0.1362	8.79588	0.95506 _n	1.21333 _n	1.00359	-0.0007
März 2.1	0.1636	8.94067	0.96313 _n	1.24807 _n	0.83423	7
12.0	0.1909	9.04143	0.96848 _n	1.26769 _n	0.52892	7
22.0	0.2182	9.12008	0.97090 _n	1.27367 _n	9.17898 _n	7
April 1.0	0.2455	9.18673	0.97021 _n	1.26663 _n	0.56312 _n	7
10.9	0.2728	9.24709	0.96670 _n	1.24638 _n	0.84739 _n	-0.0006
20.9	0.3001	9.30410	0.96099 _n	1.21179 _n	1.00826 _n	6
30.9	0.3274	9.35919	0.95371 _n	1.16065 _n	1.11528 _n	6
Mai 10.9	0.3547	9.41266	0.94571 _n	1.08867 _n	1.19039 _n	6
20.8	0.3820	9.46427	0.93822 _n	0.98758 _n	1.24343 _n	6
30.8	0.4093	9.51355	0.93186 _n	0.83942 _n	1.27953 _n	-0.0005
Juni 9.8	0.4366	9.55992	0.92778 _n	0.59295 _n	1.30146 _n	5
19.8	0.4639	9.60296	0.92629 _n	9.91593 _n	1.31071 _n	5
29.7	0.4912	9.64229	0.92778 _n	0.35946	1.30788 _n	5
Juli 9.7	0.5185	9.67775	0.93207 _n	0.72722	1.29285 _n	5
19.7	0.5458	9.70931	0.93882 _n	0.91577	1.26470 _n	-0.0004
29.6	0.5731	9.73709	0.94709 _n	1.03810	1.22160 _n	4
Aug. 8.6	0.6004	9.76132	0.95612 _n	1.12385	1.15990 _n	4
18.6	0.6277	9.78235	0.96501 _n	1.18526	1.07332 _n	4
28.6	0.6550	9.80067	0.97290 _n	1.22840	0.94856 _n	4
Sept. 7.5	0.6823	9.81681	0.97882 _n	1.25638	0.75305 _n	-0.0003
17.5	0.7096	9.83143	0.98241 _n	1.27103	0.35507 _n	3
27.5	0.7369	9.84518	0.98313 _n	1.27291	0.08493	3
Okt. 7.5	0.7642	9.85872	0.98109 _n	1.26202	0.67034	3
17.4	0.7916	9.87263	0.97635 _n	1.23742	0.90461	2
27.4	0.8189	9.88733	0.96937 _n	1.19720	1.04743	-0.0002
Nov. 6.4	0.8462	9.90306	0.96090 _n	1.13783	1.14489	1
16.3	0.8735	9.91989	0.95197 _n	1.05289	1.21362	1
26.3	0.9008	9.93760	0.94364 _n	0.92921	1.26138	1
Dez. 6.3	0.9281	9.95586	0.93712 _n	0.73440	1.29219	-0.0001
16.3	0.9554	9.97421	0.93334 _n	0.33766	1.30820	0
26.2	0.9827	9.99215	0.93288 _n	0.05994 _n	1.31031	0
36.2	1.0100	0.00923	0.93576 _n	0.64709 _n	1.29861	0

Tag	0 ^h Welt-Zeit								
	St.-Zt. Grw.	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1931									
Jan. 0	6.6	—0.0036	—0.335	0.9223	16 ^h 59.5 ^m	1.3103	23 ^h 28.4 ^m	0.0860 _n	—1.219
1	6.6	—0.0009	0.323	0.9217	17 1.7	1.3101	23 24.6	0.1342 _n	1.362
2	6.7	+0.0019	0.311	0.9211	17 3.9	1.3099	23 20.9	0.1775 _n	1.505
3	6.8	0.0046	0.299	0.9206	17 6.1	1.3097	23 17.1	0.2167 _n	1.647
4	6.8	0.0073	0.287	0.9202	17 8.3	1.3095	23 13.4	0.2524 _n	1.788
5	6.9	0.0101	0.275	0.9200	17 10.4	1.3092	23 9.6	0.2853 _n	1.929
6	7.0	0.0128	—0.263	0.9198	17 12.6	1.3089	23 5.8	0.3158 _n	—2.069
7	7.0	0.0155	0.251	0.9196	17 14.7	1.3086	23 2.0	0.3442 _n	2.209
8	7.1	0.0183	0.239	0.9195	17 16.9	1.3082	22 58.2	0.3707 _n	2.348
9	7.2	0.0210	0.227	0.9195	17 19.0	1.3079	22 54.4	0.3955 _n	2.486
10	7.2	0.0238	0.216	0.9195	17 21.2	1.3075	22 50.6	0.4190 _n	2.624
11	7.3	0.0265	0.204	0.9196	17 23.3	1.3071	22 46.8	0.4411 _n	2.761
12	7.4	0.0292	—0.193	0.9198	17 25.4	1.3067	22 43.0	0.4619 _n	—2.897
13	7.4	0.0320	0.181	0.9201	17 27.5	1.3063	22 39.2	0.4817 _n	3.032
14	7.5	0.0347	0.170	0.9204	17 29.6	1.3059	22 35.4	0.5005 _n	3.166
15	7.6	0.0375	0.158	0.9208	17 31.7	1.3054	22 31.5	0.5183 _n	3.298
16	7.6	0.0402	0.147	0.9212	17 33.7	1.3049	22 27.7	0.5353 _n	3.430
17	7.7	0.0429	0.136	0.9217	17 35.8	1.3044	22 23.8	0.5516 _n	3.561
18	7.8	0.0457	—0.125	0.9223	17 37.8	1.3039	22 20.0	0.5671 _n	—3.691
19	7.8	0.0484	0.114	0.9230	17 39.8	1.3034	22 16.1	0.5819 _n	3.819
20	7.9	0.0511	0.103	0.9237	17 41.8	1.3029	22 12.3	0.5962 _n	3.946
21	8.0	0.0539	0.092	0.9244	17 43.8	1.3024	22 8.4	0.6098 _n	4.072
22	8.0	0.0566	0.081	0.9251	17 45.8	1.3018	22 4.5	0.6229 _n	4.197
23	8.1	0.0594	0.070	0.9259	17 47.7	1.3012	22 0.6	0.6355 _n	4.320
24	8.2	0.0621	—0.060	0.9268	17 49.6	1.3006	21 56.7	0.6476 _n	—4.442
25	8.2	0.0648	0.049	0.9278	17 51.5	1.3000	21 52.8	0.6593 _n	4.563
26	8.3	0.0676	0.039	0.9287	17 53.3	1.2994	21 48.8	0.6704 _n	4.682
27	8.4	0.0703	0.029	0.9297	17 55.2	1.2988	21 44.9	0.6812 _n	4.799
28	8.4	0.0730	0.018	0.9307	17 57.0	1.2982	21 40.9	0.6915 _n	4.915
29	8.5	0.0758	—0.008	0.9318	17 58.7	1.2976	21 37.0	0.7015 _n	5.029
30	8.6	0.0785	+0.002	0.9329	18 0.5	1.2970	21 33.0	0.7111 _n	—5.142
31	8.6	0.0813	0.012	0.9340	18 2.2	1.2963	21 29.0	0.7204 _n	5.253
Febr. 1	8.7	0.0840	0.022	0.9352	18 3.9	1.2957	21 25.0	0.7294 _n	5.363
2	8.7	0.0867	0.031	0.9364	18 5.6	1.2950	21 21.0	0.7381 _n	5.471
3	8.8	0.0895	0.041	0.9376	18 7.2	1.2944	21 17.0	0.7464 _n	5.577
4	8.9	0.0922	0.051	0.9388	18 8.9	1.2937	21 13.0	0.7544 _n	5.681
5	8.9	0.0949	+0.060	0.9400	18 10.5	1.2930	21 8.9	0.7622 _n	—5.783
6	9.0	0.0977	0.069	0.9413	18 12.0	1.2924	21 4.9	0.7696 _n	5.883
7	9.1	0.1004	0.079	0.9425	18 13.6	1.2917	21 0.8	0.7768 _n	5.982
8	9.1	0.1032	0.088	0.9438	18 15.1	1.2911	20 56.7	0.7838 _n	6.079
9	9.2	0.1059	0.097	0.9451	18 16.6	1.2904	20 52.7	0.7906 _n	6.174
10	9.3	0.1086	+0.106	0.9464	18 18.1	1.2897	20 48.6	0.7971 _n	—6.267

Tag	0 ^h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1931.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1931	in 0.001	in 0.01				in 0.01	23° 27'		in 0.01	in 0.001	
Jan. 0	—19	+12	12.4	—0.18	—5.29	—30	1.83	+8.07	+1	36	89
1	—18	12	10.9	—0.04	5.23	—30	1.78	8.08	—3	36	89
2	—14	12	9.3	+0.09	5.17	—23	1.75	8.09	—8	36	89
3	—8	12	7.8	0.23	5.11	—13	1.73	8.10	—10	36	89
4	0	11	6.1	0.37	5.05	0	1.73	8.11	—11	36	89
5	+7	10	4.1	0.51	4.99	+12	1.77	8.12	—9	36	89
6	+13	+10	1.9	+0.64	—4.94	+21	1.82	+8.13	—5	36	89
7	+15	10	23.7	0.78	4.88	+25	1.88	8.15	+1	36	89
8	+14	11	21.8	0.92	4.82	+23	1.95	8.16	+6	36	88
9	+9	11	20.2	1.06	4.77	+15	2.00	8.17	+10	36	88
10	+3	11	18.7	1.19	4.72	+5	2.03	8.19	+11	36	88
11	—4	10	17.1	1.33	4.66	—6	2.03	8.20	+10	36	88
12	—9	+9	15.3	+1.47	—4.61	—14	2.01	+8.22	+6	36	88
13	—11	7	12.9	1.61	4.56	—18	1.97	8.23	+2	36	88
14	—10	7	10.2	1.74	4.51	—16	1.94	8.25	—3	36	88
15	—6	9	7.9	1.88	4.47	—10	1.91	8.27	—7	36	88
16	—1	10	6.2	2.02	4.42	—1	1.90	8.29	—10	36	88
17	+5	11	4.8	2.16	4.37	+8	1.92	8.31	—10	36	88
18	+10	+11	3.5	+2.30	—4.33	+17	1.95	+8.32	—9	36	88
19	+14	10	2.1	2.43	4.29	+22	2.00	8.34	—5	36	88
20	+15	10	0.5	2.57	4.24	+24	2.06	8.36	—1	37	87
21	+14	9	22.8	2.71	4.20	+22	2.12	8.38	+3	37	87
22	+10	9	21.0	2.85	4.17	+16	2.17	8.40	+6	37	87
23	+4	9	19.1	2.98	4.13	+7	2.22	8.42	+9	37	87
24	—2	+10	17.4	+3.12	—4.09	—4	2.25	+8.44	+10	37	87
25	—9	11	15.9	3.26	4.06	—15	2.26	8.46	+9	37	87
26	—15	12	14.3	3.40	4.02	—24	2.26	8.48	+7	37	87
27	—18	12	12.9	3.53	3.99	—30	2.24	8.50	+3	37	87
28	—19	13	11.4	3.67	3.96	—31	2.21	8.53	—2	37	86
29	—17	13	9.9	3.81	3.94	—27	2.18	8.55	—7	37	86
30	—11	+12	8.4	+3.95	—3.91	—18	2.17	+8.57	—10	37	86
31	—4	11	6.9	4.08	3.88	—6	2.18	8.59	—11	37	86
Febr. 1	+4	10	5.1	4.22	3.86	+6	2.21	8.61	—10	38	86
2	+10	9	2.9	4.36	3.84	+17	2.27	8.63	—6	38	86
3	+14	9	0.5	4.50	3.82	+23	2.34	8.66	—1	38	86
4	+14	10	22.3	4.63	3.80	+23	2.42	8.68	+4	38	86
5	+11	+11	20.6	+4.77	—3.78	+18	2.48	+8.70	+9	38	86
6	+5	11	19.1	4.91	3.77	+8	2.52	8.72	+11	38	85
7	—1	11	17.7	5.05	3.75	—2	2.54	8.74	+11	38	85
8	—7	9	16.0	5.19	3.74	—11	2.53	8.77	+8	38	85
9	—10	7	13.9	5.32	3.73	—16	2.51	8.79	+3	38	85
10	—10	+7	11.0	+5.46	—3.72	—16	2.48	+8.81	—2	38	85

Tag	O ^h Welt-Zeit								
	St.-Zt. Grw.	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1931									
Febr. 10	^h 9.3	^a 0.1086	+0.106	0.9464	18 ^h 18.1	1.2897	20 ^h 48.6	0.7971 _n	-6.267
11	9.3	0.1114	0.115	0.9477	18 19.5	1.2891	20 44.5	0.8033 _n	6.358
12	9.4	0.1141	0.123	0.9490	18 21.0	1.2884	20 40.4	0.8094 _n	6.447
13	9.5	0.1169	0.132	0.9502	18 22.4	1.2878	20 36.2	0.8152 _n	6.534
14	9.5	0.1196	0.141	0.9515	18 23.8	1.2871	20 32.1	0.8208 _n	6.619
15	9.6	0.1223	*0.149	0.9528	18 25.1	1.2865	20 27.9	0.8262 _n	6.702
16	9.7	0.1251	+0.158	0.9540	18 26.4	1.2859	20 23.8	0.8314 _n	-6.782
17	9.7	0.1278	0.166	0.9553	18 27.7	1.2852	20 19.6	0.8363 _n	6.860
18	9.8	0.1305	0.174	0.9566	18 29.0	1.2846	20 15.5	0.8411 _n	6.936
19	9.9	0.1333	0.182	0.9578	18 30.3	1.2840	20 11.3	0.8457 _n	7.010
20	9.9	0.1360	0.190	0.9591	18 31.5	1.2834	20 7.1	0.8502 _n	7.082
21	10.0	0.1388	0.198	0.9603	18 32.8	1.2828	20 2.9	0.8544 _n	7.152
22	10.1	0.1415	+0.206	0.9615	18 34.0	1.2823	19 58.6	0.8585 _n	-7.220
23	10.1	0.1442	0.214	0.9627	18 35.2	1.2817	19 54.4	0.8624 _n	7.285
24	10.2	0.1470	0.222	0.9639	18 36.3	1.2812	19 50.2	0.8662 _n	7.348
25	10.3	0.1497	0.229	0.9651	18 37.5	1.2806	19 45.9	0.8698 _n	7.409
26	10.3	0.1524	0.237	0.9662	18 38.6	1.2801	19 41.7	0.8731 _n	7.467
27	10.4	0.1552	0.244	0.9674	18 39.7	1.2796	19 37.4	0.8763 _n	7.522
28	10.5	0.1579	+0.252	0.9685	18 40.8	1.2791	19 33.2	0.8794 _n	-7.576
März 1	10.5	0.1607	0.259	0.9696	18 41.9	1.2786	19 28.9	0.8824 _n	7.628
2	10.6	0.1634	0.267	0.9707	18 43.0	1.2782	19 24.6	0.8852 _n	7.677
3	10.7	0.1661	0.274	0.9718	18 44.1	1.2778	19 20.3	0.8878 _n	7.723
4	10.7	0.1689	0.281	0.9729	18 45.1	1.2774	19 16.0	0.8903 _n	7.767
5	10.8	0.1716	0.288	0.9739	18 46.2	1.2770	19 11.7	0.8926 _n	7.809
6	10.9	0.1743	+0.295	0.9749	18 47.2	1.2766	19 7.4	0.8948 _n	-7.848
7	10.9	0.1771	0.302	0.9759	18 48.3	1.2762	19 3.1	0.8968 _n	7.885
8	11.0	0.1798	0.309	0.9768	18 49.3	1.2759	18 58.8	0.8987 _n	7.919
9	11.0	0.1826	0.316	0.9777	18 50.3	1.2756	18 54.5	0.9004 _n	7.951
10	11.1	0.1853	0.323	0.9786	18 51.3	1.2753	18 50.2	0.9021 _n	7.981
11	11.2	0.1880	0.330	0.9795	18 52.3	1.2750	18 45.8	0.9035 _n	8.008
12	11.2	0.1908	+0.337	0.9803	18 53.3	1.2748	18 41.5	0.9049 _n	-8.033
13	11.3	0.1935	0.344	0.9811	18 54.3	1.2746	18 37.2	0.9061 _n	8.055
14	11.4	0.1962	0.350	0.9819	18 55.3	1.2744	18 32.8	0.9071 _n	8.075
15	11.4	0.1990	0.357	0.9827	18 56.3	1.2742	18 28.5	0.9081 _n	8.093
16	11.5	0.2017	0.364	0.9835	18 57.3	1.2741	18 24.2	0.9089 _n	8.108
17	11.6	0.2045	0.371	0.9842	18 58.2	1.2740	18 19.8	0.9096 _n	8.120
18	11.6	0.2072	+0.377	0.9849	18 59.2	1.2739	18 15.5	0.9101 _n	-8.130
19	11.7	0.2099	0.384	0.9856	19 0.2	1.2738	18 11.2	0.9105 _n	8.138
20	11.8	0.2127	0.391	0.9863	19 1.2	1.2737	18 6.8	0.9108 _n	8.143
21	11.8	0.2154	0.398	0.9869	19 2.1	1.2737	18 2.5	0.9109 _n	8.145
22	11.9	0.2182	0.404	0.9875	19 3.1	1.2737	17 58.2	0.9109 _n	8.145
23	12.0	0.2209	+0.411	0.9881	19 4.1	1.2737	17 53.8	0.9108 _n	-8.143

Tag	O ^h Welt-Zeit										
	<i>f'</i>	<i>g'</i>	<i>G'</i>	Allgemeine Präzession seit 1931.0	<i>Δψ</i>	<i>Δψ'</i>	Wahre Schiefe	<i>Δε</i>	<i>Δε'</i>	<i>j</i>	<i>k</i>
1931	in ^o .001	in ^o .01				in ^o .01	23° 27'		in ^o .01	in ^o .001	
Febr. 10	—10	+ 7	11.0	+ 5.46	—3.72	—16	2.48	+8.81	— 2	38	85
11	— 7	8	8.3	5.60	3.71	—11	2.45	8.83	— 6	39	85
12	— 2	10	6.5	5.74	3.71	— 3	2.44	8.85	— 9	39	85
13	+ 4	11	5.0	5.87	3.70	+ 7	2.45	8.87	—11	39	84
14	+10	11	3.7	6.01	3.70	+16	2.48	8.89	— 9	39	84
15	+14	11	2.4	6.15	3.70	+22	2.53	8.92	— 7	39	84
16	+15	+10	1.0	+ 6.29	—3.70	+25	2.59	+8.94	— 3	39	84
17	+15	10	23.3	6.42	3.70	+24	2.65	8.96	+ 2	39	84
18	+12	9	21.5	6.56	3.70	+19	2.71	8.98	+ 6	39	84
19	+ 6	9	19.7	6.70	3.71	+10	2.76	9.00	+ 8	40	84
20	0	10	18.0	6.84	3.71	0	2.79	9.01	+10	40	84
21	— 7	11	16.4	6.97	3.72	—11	2.80	9.03	+10	40	84
22	—13	+11	14.9	+ 7.11	—3.73	—21	2.80	+9.05	+ 8	40	83
23	—17	12	13.3	7.25	3.74	—28	2.78	9.07	+ 4	40	83
24	—19	12	11.8	7.39	3.75	—31	2.75	9.09	0	40	83
25	—18	13	10.4	7.52	3.76	—29	2.72	9.10	— 5	40	83
26	—14	13	9.0	7.66	3.78	—22	2.70	9.12	— 9	40	83
27	— 7	12	7.5	7.80	3.79	—12	2.69	9.14	—11	40	83
28	+ 1	+11	5.9	+ 7.94	—3.81	+ 1	2.71	+9.15	—11	41	83
März 1	+ 7	9	3.9	8.07	3.83	+12	2.75	9.17	— 8	41	83
2	+12	8	1.4	8.21	3.84	+20	2.81	9.18	— 3	41	83
3	+13	9	22.9	8.35	3.86	+22	2.88	9.20	+ 2	41	82
4	+11	10	21.0	8.49	3.88	+18	2.94	9.21	+ 7	41	82
5	+ 6	11	19.4	8.63	3.90	+10	2.99	9.22	+10	41	82
6	0	+11	18.0	+ 8.76	—3.92	0	3.00	+9.24	+11	41	82
7	— 6	10	16.5	8.90	3.95	— 9	2.99	9.25	+ 9	41	82
8	— 9	8	14.6	9.04	3.97	—15	2.96	9.26	+ 5	41	82
9	—10	7	12.0	9.18	3.99	—17	2.92	9.27	0	41	82
10	— 8	7	9.0	9.31	4.02	—13	2.88	9.28	— 5	41	82
11	— 3	9	6.9	9.45	4.04	— 5	2.85	9.29	— 9	42	82
12	+ 3	+11	5.3	+ 9.59	—4.07	+ 5	2.84	+9.30	—10	42	82
13	+ 9	11	4.0	9.73	4.10	+14	2.85	9.31	—10	42	82
14	+13	12	2.7	9.86	4.12	+22	2.88	9.31	— 8	42	82
15	+16	11	1.4	10.00	4.15	+26	2.92	9.32	— 4	42	82
16	+16	10	23.9	10.14	4.18	+26	2.97	9.33	0	42	82
17	+13	10	22.2	10.28	4.21	+22	3.02	9.33	+ 4	42	82
18	+ 9	+10	20.4	+10.41	—4.23	+14	3.06	+9.34	+ 8	42	82
19	+ 3	10	18.7	10.55	4.26	+ 5	3.08	9.34	+10	42	82
20	— 4	10	17.1	10.69	4.29	— 6	3.08	9.35	+10	42	82
21	—10	11	15.5	10.83	4.32	—17	3.07	9.35	+ 8	42	82
22	—15	11	13.9	10.96	4.35	—25	3.04	9.35	+ 5	42	82
23	—18	+12	12.3	+11.10	—4.38	—29	2.99	+9.35	+ 1	42	82

Tag	O ^b Welt-Zeit								
	St.-Zt. Grw.	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1931									
März 23	12.0 ^h	0.2209 ^a	+0.411 ^a	0.9881	19 ^b 4.1 ^m	1.2737	17 ^b 53.8 ^m	0.9108 _n	-8.143
24	12.0	0.2236	0.418	0.9887	19 5.1	1.2737	17 49.5	0.9106 _n	8.139
25	12.1	0.2264	0.424	0.9892	19 6.1	1.2738	17 45.2	0.9102 _n	8.132
26	12.2	0.2291	0.431	0.9898	19 7.1	1.2739	17 40.9	0.9097 _n	8.122
27	12.2	0.2318	0.438	0.9903	19 8.0	1.2740	17 36.6	0.9090 _n	8.110
28	12.3	0.2346	0.445	0.9908	19 9.0	1.2742	17 32.3	0.9082 _n	8.095
29	12.4	0.2373	+0.451	0.9913	19 10.0	1.2743	17 28.0	0.9073 _n	-8.078
30	12.4	0.2401	0.458	0.9918	19 11.0	1.2745	17 23.7	0.9063 _n	8.059
31	12.5	0.2428	0.465	0.9922	19 12.0	1.2747	17 19.4	0.9051 _n	8.038
April 1	12.6	0.2455	0.472	0.9927	19 13.1	1.2750	17 15.1	0.9038 _n	8.014
2	12.6	0.2483	0.479	0.9931	19 14.1	1.2752	17 10.8	0.9024 _n	7.988
3	12.7	0.2510	0.486	0.9935	19 15.1	1.2755	17 6.6	0.9009 _n	7.959
4	12.8	0.2537	+0.492	0.9939	19 16.2	1.2758	17 2.3	0.8992 _n	-7.928
5	12.8	0.2565	0.499	0.9943	19 17.2	1.2761	16 58.1	0.8974 _n	7.895
6	12.9	0.2592	0.506	0.9946	19 18.3	1.2765	16 53.8	0.8954 _n	7.859
7	13.0	0.2620	0.513	0.9950	19 19.4	1.2768	16 49.6	0.8933 _n	7.821
8	13.0	0.2647	0.521	0.9953	19 20.4	1.2772	16 45.4	0.8910 _n	7.781
9	13.1	0.2674	0.528	0.9957	19 21.5	1.2776	16 41.2	0.8886 _n	7.738
10	13.2	0.2702	+0.535	0.9960	19 22.6	1.2780	16 37.0	0.8861 _n	-7.693
11	13.2	0.2729	0.542	0.9964	19 23.7	1.2785	16 32.8	0.8834 _n	7.646
12	13.3	0.2756	0.550	0.9967	19 24.8	1.2789	16 28.6	0.8806 _n	7.597
13	13.3	0.2784	0.557	0.9970	19 26.0	1.2794	16 24.4	0.8777 _n	7.546
14	13.4	0.2811	0.564	0.9974	19 27.1	1.2799	16 20.3	0.8747 _n	7.493
15	13.5	0.2839	0.572	0.9977	19 28.3	1.2804	16 16.1	0.8714 _n	7.437
16	13.5	0.2866	+0.580	0.9980	19 29.4	1.2809	16 12.0	0.8680 _n	-7.379
17	13.6	0.2893	0.587	0.9983	19 30.6	1.2814	16 7.9	0.8645 _n	7.319
18	13.7	0.2921	0.595	0.9987	19 31.8	1.2819	16 3.8	0.8608 _n	7.257
19	13.7	0.2948	0.603	0.9990	19 33.0	1.2825	15 59.7	0.8569 _n	7.193
20	13.8	0.2976	0.611	0.9993	19 34.2	1.2831	15 55.6	0.8529 _n	7.127
21	13.9	0.3003	0.619	0.9997	19 35.4	1.2836	15 51.5	0.8487 _n	7.058
22	13.9	0.3030	+0.627	1.0000	19 36.7	1.2842	15 47.5	0.8444 _n	-6.988
23	14.0	0.3058	0.635	1.0004	19 37.9	1.2848	15 43.4	0.8399 _n	6.916
24	14.1	0.3085	0.643	1.0008	19 39.2	1.2854	15 39.4	0.8352 _n	6.842
25	14.1	0.3112	0.651	1.0012	19 40.4	1.2860	15 35.4	0.8303 _n	6.766
26	14.2	0.3140	0.660	1.0016	19 41.7	1.2866	15 31.4	0.8253 _n	6.688
27	14.3	0.3167	0.668	1.0020	19 43.0	1.2872	15 27.4	0.8201 _n	6.608
28	14.3	0.3195	+0.677	1.0025	19 44.3	1.2878	15 23.4	0.8146 _n	-6.526
29	14.4	0.3222	0.685	1.0029	19 45.6	1.2885	15 19.4	0.8091 _n	6.443
30	14.5	0.3249	0.694	1.0034	19 46.9	1.2891	15 15.5	0.8033 _n	6.357
Mai 1	14.5	0.3277	0.703	1.0039	19 48.2	1.2897	15 11.5	0.7973 _n	6.270
2	14.6	0.3304	0.712	1.0044	19 49.5	1.2904	15 7.6	0.7911 _n	6.181
3	14.7	0.3331	+0.721	1.0050	19 50.9	1.2910	15 3.7	0.7846 _n	-6.090

Tag	0 ^h Welt-Zeit										
	<i>f'</i>	<i>g'</i>	<i>G'</i>	Allgemeine Präzession seit 1931.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	<i>j</i>	<i>k</i>
1931	in 0.001	in 0.01				in 0.01	23° 27'		in 0.01	in 0.001	
März 23	-18	+12	12.3	+11.10	-4.38	-29	2.99	+9.35	+1	42	82
24	-18	12	10.8	11.24	4.41	-29	2.95	9.35	-4	42	82
25	-15	12	9.4	11.38	4.43	-24	2.90	9.35	-8	42	82
26	-9	12	8.0	11.51	4.46	-15	2.88	9.35	-11	43	82
27	-2	11	6.5	11.65	4.49	-3	2.87	9.35	-11	43	82
28	+5	9	4.7	11.79	4.52	+8	2.89	9.35	-9	43	82
29	+10	+8	2.4	+11.93	-4.54	+17	2.93	+9.35	-5	43	82
30	+12	8	23.7	12.07	4.57	+20	2.98	9.34	+1	43	82
31	+11	9	21.4	12.20	4.60	+18	3.02	9.34	+6	43	82
April 1	+7	11	19.7	12.34	4.62	+11	3.06	9.34	+10	43	82
2	+1	11	18.2	12.48	4.65	+1	3.06	9.33	+11	43	82
3	-5	11	16.7	12.62	4.67	-9	3.05	9.33	+10	43	82
4	-10	+9	15.1	+12.75	-4.70	-16	3.00	+9.32	+7	43	82
5	-11	7	12.9	12.89	4.72	-18	2.95	9.31	+2	43	82
6	-10	7	10.0	13.03	4.74	-16	2.88	9.30	-4	43	82
7	-5	8	7.5	13.17	4.76	-8	2.84	9.30	-8	43	82
8	+1	10	5.8	13.30	4.78	+1	2.80	9.29	-10	43	82
9	+7	11	4.3	13.44	4.80	+12	2.79	9.28	-10	43	82
10	+13	+12	3.1	+13.58	-4.82	+21	2.80	+9.27	-9	43	83
11	+16	12	1.7	13.72	4.84	+26	2.82	9.26	-5	43	83
12	+17	11	0.3	13.85	4.86	+28	2.85	9.25	-1	43	83
13	+15	10	22.8	13.99	4.88	+24	2.88	9.24	+3	43	83
14	+11	10	21.1	14.13	4.89	+18	2.90	9.23	+7	43	83
15	+5	10	19.4	14.27	4.91	+9	2.92	9.22	+9	43	83
16	-1	+10	17.7	+14.40	-4.92	-2	2.91	+9.21	+10	43	83
17	-8	10	16.0	14.54	4.93	-13	2.89	9.19	+9	43	83
18	-13	11	14.4	14.68	4.94	-22	2.84	9.18	+6	43	83
19	-17	11	12.8	14.82	4.95	-27	2.79	9.17	+2	43	83
20	-17	12	11.2	14.96	4.96	-29	2.73	9.15	-2	43	84
21	-15	12	9.7	15.09	4.97	-25	2.66	9.14	-7	43	84
22	-10	+12	8.3	+15.23	-4.98	-17	2.62	+9.12	-10	44	84
23	-4	11	6.8	15.37	4.98	-6	2.59	9.11	-11	44	84
24	+3	10	5.1	15.51	4.99	+6	2.59	9.10	-10	44	84
25	+9	8	3.1	15.64	4.99	+15	2.61	9.08	-6	44	84
26	+12	8	0.6	15.78	4.99	+20	2.64	9.07	-1	44	84
27	+12	9	22.1	15.92	4.99	+19	2.68	9.05	+4	44	84
28	+8	+10	20.0	+16.06	-4.99	+13	2.71	+9.03	+9	44	84
29	+2	11	18.5	16.19	4.98	+3	2.71	9.02	+11	44	85
30	-4	11	17.0	16.33	4.98	-7	2.69	9.00	+11	44	85
Mai 1	-10	10	15.4	16.47	4.97	-16	2.65	8.99	+8	44	85
2	-12	9	13.5	16.61	4.97	-20	2.59	8.97	+3	44	85
3	-12	+8	11.0	+16.74	-4.96	-19	2.51	+8.95	-2	44	85

Tag	O ^h Welt-Zeit								
	St.-Zt. Grw.	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1931									
Mai 3	14.7 ^h	0.3331 ^a	+0.721 ^a	1.0050	19 50.9 ^{b m}	1.2910	15 3.7 ^{h m}	0.7846 _n	-6.090
4	14.7	0.3359	0.730	1.0055	19 52.2	1.2916	14 59.8	0.7780 _n	5.998
5	14.8	0.3386	0.739	1.0061	19 53.6	1.2922	14 55.9	0.7711 _n	5.904
6	14.9	0.3414	0.748	1.0067	19 55.0	1.2929	14 52.1	0.7640 _n	5.808
7	14.9	0.3441	0.757	1.0073	19 56.3	1.2935	14 48.2	0.7567 _n	5.711
8	15.0	0.3468	0.767	1.0080	19 57.7	1.2941	14 44.4	0.7491 _n	5.612
9	15.1	0.3496	+0.776	1.0087	19 59.1	1.2948	14 40.5	0.7412 _n	-5.511
10	15.1	0.3523	0.786	1.0094	20 0.5	1.2954	14 36.7	0.7331 _n	5.409
11	15.2	0.3550	0.795	1.0102	20 1.9	1.2960	14 32.9	0.7247 _n	5.305
12	15.3	0.3578	0.805	1.0110	20 3.3	1.2966	14 29.1	0.7160 _n	5.200
13	15.3	0.3605	0.815	1.0118	20 4.7	1.2972	14 25.3	0.7071 _n	5.094
14	15.4	0.3633	0.825	1.0127	20 6.1	1.2978	14 21.6	0.6978 _n	4.987
15	15.5	0.3660	+0.835	1.0136	20 7.5	1.2984	14 17.8	0.6882 _n	-4.878
16	15.5	0.3687	0.845	1.0145	20 8.9	1.2990	14 14.1	0.6783 _n	4.768
17	15.6	0.3715	0.855	1.0154	20 10.3	1.2996	14 10.3	0.6680 _n	4.656
18	15.6	0.3742	0.865	1.0163	20 11.8	1.3002	14 6.6	0.6573 _n	4.543
19	15.7	0.3770	0.875	1.0173	20 13.2	1.3007	14 2.9	0.6463 _n	4.429
20	15.8	0.3797	0.886	1.0183	20 14.6	1.3013	13 59.2	0.6349 _n	4.314
21	15.8	0.3824	+0.896	1.0194	20 16.0	1.3018	13 55.5	0.6229 _n	-4.197
22	15.9	0.3852	0.907	1.0206	20 17.4	1.3023	13 51.8	0.6106 _n	4.079
23	16.0	0.3879	0.917	1.0218	20 18.8	1.3028	13 48.1	0.5977 _n	3.960
24	16.0	0.3906	0.928	1.0230	20 20.2	1.3033	13 44.5	0.5843 _n	3.840
25	16.1	0.3934	0.938	1.0242	20 21.6	1.3038	13 40.8	0.5704 _n	3.719
26	16.2	0.3961	0.949	1.0254	20 23.0	1.3043	13 37.2	0.5559 _n	3.597
27	16.2	0.3989	+0.960	1.0267	20 24.4	1.3048	13 33.6	0.5408 _n	-3.474
28	16.3	0.4016	0.971	1.0280	20 25.8	1.3052	13 29.9	0.5250 _n	3.350
29	16.4	0.4043	0.982	1.0294	20 27.2	1.3057	13 26.3	0.5085 _n	3.225
30	16.4	0.4071	0.993	1.0308	20 28.6	1.3061	13 22.7	0.4912 _n	3.099
31	16.5	0.4098	1.004	1.0322	20 29.9	1.3065	13 19.1	0.4732 _n	2.973
Juni 1	16.6	0.4125	1.015	1.0336	20 31.3	1.3069	13 15.5	0.4542 _n	2.846
2	16.6	0.4153	+1.026	1.0351	20 32.6	1.3073	13 11.9	0.4342 _n	-2.718
3	16.7	0.4180	1.037	1.0366	20 33.9	1.3076	13 8.4	0.4131 _n	2.589
4	16.8	0.4208	1.049	1.0382	20 35.3	1.3080	13 4.8	0.3909 _n	2.460
5	16.8	0.4235	1.060	1.0398	20 36.6	1.3083	13 1.2	0.3674 _n	2.330
6	16.9	0.4262	1.071	1.0414	20 37.9	1.3086	12 57.7	0.3422 _n	2.199
7	17.0	0.4290	1.083	1.0431	20 39.2	1.3089	12 54.1	0.3156 _n	2.068
8	17.0	0.4317	+1.094	1.0448	20 40.4	1.3092	12 50.6	0.2869 _n	-1.936
9	17.1	0.4344	1.106	1.0465	20 41.7	1.3094	12 47.1	0.2562 _n	1.804
10	17.2	0.4372	1.117	1.0482	20 42.9	1.3097	12 43.5	0.2230 _n	1.671
11	17.2	0.4399	1.129	1.0500	20 44.2	1.3099	12 40.0	0.1870 _n	1.538
12	17.3	0.4427	1.140	1.0518	20 45.4	1.3101	12 36.5	0.1474 _n	1.404
13	17.4	0.4454	+1.152	1.0536	20 46.6	1.3103	12 33.0	0.1038 _n	-1.270

Tag		0 ^h Welt-Zeit										
		f'	g'	G'	Allgemeine Präzession seit 1931.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1931		in 0.001	in 0.01				in 0.01	23° 27'		in 0.01	in 0.001	
Mai	3	-12	+ 8	11.0	+16.74	-4.96	-19	2.51	+8.95	- 2	44	85
	4	- 8	8	8.5	16.88	4.95	-13	2.45	8.94	- 7	44	85
	5	- 2	10	6.5	17.02	4.94	- 3	2.40	8.92	-10	44	85
	6	+ 5	11	4.9	17.16	4.92	+ 8	2.37	8.90	-11	44	85
	7	+11	12	3.5	17.29	4.91	+18	2.37	8.89	- 9	44	86
	8	+15	12	2.2	17.43	4.89	+25	2.38	8.87	- 6	44	86
	9	+17	+11	0.7	+17.57	-4.88	+28	2.41	+8.85	- 2	44	86
	10	+16	10	23.2	17.71	4.86	+26	2.43	8.84	+ 2	45	86
	11	+13	10	21.6	17.84	4.84	+20	2.45	8.82	+ 6	45	86
	12	+ 7	10	19.9	17.98	4.82	+12	2.46	8.81	+ 9	45	86
	13	+ 1	10	18.2	18.12	4.79	+ 1	2.46	8.79	+10	45	86
	14	- 6	10	16.6	18.26	4.77	- 9	2.44	8.78	+ 9	45	86
	15	-11	+10	14.9	+18.40	-4.74	-19	2.40	+8.76	+ 7	45	87
	16	-16	11	13.3	18.53	4.72	-25	2.35	8.74	+ 4	45	87
	17	-17	11	11.8	18.67	4.69	-28	2.28	8.73	- 1	45	87
	18	-16	11	10.1	18.81	4.66	-25	2.22	8.71	- 5	45	87
	19	-11	12	8.6	18.95	4.63	-18	2.17	8.70	- 9	45	87
	20	- 5	11	7.1	19.08	4.60	- 8	2.13	8.68	-11	45	87
	21	+ 2	+10	5.5	+19.22	-4.57	+ 3	2.12	+8.67	-10	46	87
	22	+ 8	9	3.6	19.36	4.53	+14	2.14	8.66	- 7	46	87
	23	+12	8	1.3	19.50	4.50	+20	2.17	8.64	- 3	46	87
	24	+13	9	22.9	19.63	4.46	+21	2.21	8.63	+ 3	46	88
	25	+10	10	20.7	19.77	4.42	+16	2.24	8.62	+ 7	46	88
	26	+ 4	11	19.0	19.91	4.38	+ 7	2.26	8.60	+10	46	88
	27	- 2	+11	17.5	+20.05	-4.34	- 4	2.25	+8.59	+11	46	88
	28	- 8	11	15.9	20.18	4.30	-14	2.22	8.58	+ 9	46	88
	29	-12	9	14.1	20.32	4.26	-20	2.16	8.57	+ 5	47	88
	30	-13	9	11.9	20.46	4.22	-21	2.10	8.56	0	47	88
	31	-10	8	9.5	20.60	4.17	-17	2.04	8.55	- 5	47	88
Juni	1	- 5	10	7.3	20.73	4.13	- 8	1.99	8.54	- 9	47	88
	2	+ 2	+11	5.6	+20.87	-4.09	+ 3	1.96	+8.53	-11	47	88
	3	+ 8	11	4.1	21.01	4.04	+14	1.96	8.52	-10	47	88
	4	+14	12	2.7	21.15	3.99	+22	1.97	8.51	- 7	48	88
	5	+16	11	1.2	21.29	3.94	+27	2.00	8.50	- 3	48	89
	6	+16	11	23.7	21.42	3.90	+27	2.04	8.49	+ 1	48	89
	7	+14	10	22.0	21.56	3.85	+22	2.07	8.49	+ 5	48	89
	8	+ 9	+10	20.4	+21.70	-3.80	+15	2.10	+8.48	+ 8	48	89
	9	+ 3	10	18.7	21.84	3.75	+ 4	2.11	8.47	+10	48	89
	10	- 4	10	17.0	21.97	3.70	- 6	2.10	8.47	+10	49	89
	11	-10	10	15.4	22.11	3.64	-16	2.07	8.46	+ 8	49	89
	12	-15	11	13.8	22.25	3.59	-24	2.04	8.46	+ 5	49	89
	13	-17	+11	12.2	+22.39	-3.54	-28	1.99	+8.45	+ 1	49	89

Tag	O ^h Welt-Zeit								
	St.-Zt. Grw.	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1931									
Juni 13	17.4 ^h	0.4454 ^a	+1.152 ^a	1.0536	20 ^h 46.6 ^m	1.3103	12 ^h 33.0 ^m	0.1038 _n	-1.270 ^a
14	17.4	0.4481	1.164	1.0554	20 47.8	1.3105	12 29.4	0.0550 _n	1.135
15	17.5	0.4509	1.175	1.0573	20 49.0	1.3106	12 25.9	0.0000 _n	1.000
16	17.6	0.4536	1.187	1.0591	20 50.2	1.3107	12 22.4	9.9370 _n	0.865
17	17.6	0.4564	1.199	1.0610	20 51.3	1.3108	12 18.9	9.8633 _n	0.730
18	17.7	0.4591	1.210	1.0629	20 52.4	1.3109	12 15.4	9.7745 _n	0.595
19	17.8	0.4618	+1.222	1.0649	20 53.5	1.3110	12 11.9	9.6628 _n	-0.460
20	17.8	0.4646	1.234	1.0669	20 54.6	1.3111	12 8.4	9.5119 _n	0.325
21	17.9	0.4673	1.246	1.0689	20 55.7	1.3111	12 4.9	9.2765 _n	0.189
22	17.9	0.4700	1.257	1.0709	20 56.8	1.3111	12 1.4	8.7243 _n	-0.053
23	18.0	0.4728	1.269	1.0729	20 57.8	1.3111	11 57.9	8.9138	+0.082
24	18.1	0.4755	1.281	1.0749	20 58.8	1.3111	11 54.4	9.3385	0.218
25	18.1	0.4783	+1.293	1.0769	20 59.8	1.3111	11 50.9	9.5490	+0.354
26	18.2	0.4810	1.304	1.0790	21 0.8	1.3110	11 47.4	9.6893	0.489
27	18.3	0.4837	1.316	1.0811	21 1.8	1.3109	11 43.9	9.7952	0.624
28	18.3	0.4865	1.328	1.0831	21 2.8	1.3108	11 40.4	9.8802	0.759
29	18.4	0.4892	1.339	1.0852	21 3.7	1.3107	11 36.9	9.9513	0.894
30	18.5	0.4919	1.351	1.0872	21 4.6	1.3106	11 33.4	0.0124	1.029
Juli 1	18.5	0.4947	+1.363	1.0893	21 5.5	1.3104	11 29.8	0.0656	+1.163
2	18.6	0.4974	1.374	1.0915	21 6.4	1.3102	11 26.3	0.1129	1.297
3	18.7	0.5002	1.386	1.0936	21 7.2	1.3100	11 22.8	0.1553	1.430
4	18.7	0.5029	1.397	1.0957	21 8.1	1.3098	11 19.3	0.1940	1.563
5	18.8	0.5056	1.409	1.0978	21 8.9	1.3096	11 15.8	0.2294	1.696
6	18.9	0.5084	1.420	1.0999	21 9.7	1.3094	11 12.3	0.2620	1.828
7	18.9	0.5111	+1.432	1.1020	21 10.5	1.3091	11 8.7	0.2923	+1.960
8	19.0	0.5138	1.443	1.1041	21 11.3	1.3088	11 5.2	0.3206	2.092
9	19.1	0.5166	1.455	1.1063	21 12.1	1.3085	11 1.7	0.3469	2.223
10	19.1	0.5193	1.466	1.1084	21 12.8	1.3082	10 58.1	0.3716	2.353
11	19.2	0.5221	1.477	1.1105	21 13.5	1.3079	10 54.6	0.3948	2.482
12	19.3	0.5248	1.488	1.1126	21 14.2	1.3076	10 51.0	0.4168	2.611
13	19.3	0.5275	+1.500	1.1147	21 14.9	1.3072	10 47.5	0.4376	+2.739
14	19.4	0.5303	1.511	1.1168	21 15.5	1.3068	10 43.9	0.4573	2.866
15	19.5	0.5330	1.522	1.1189	21 16.2	1.3064	10 40.3	0.4760	2.992
16	19.5	0.5358	1.533	1.1209	21 16.8	1.3060	10 36.7	0.4939	3.118
17	19.6	0.5385	1.544	1.1230	21 17.5	1.3056	10 33.1	0.5109	3.243
18	19.7	0.5412	1.555	1.1251	21 18.1	1.3052	10 29.5	0.5272	3.367
19	19.7	0.5440	+1.566	1.1271	21 18.7	1.3047	10 25.9	0.5428	+3.490
20	19.8	0.5467	1.576	1.1292	21 19.2	1.3043	10 22.3	0.5577	3.612
21	19.9	0.5494	1.587	1.1312	21 19.8	1.3038	10 18.7	0.5721	3.733
22	19.9	0.5522	1.598	1.1333	21 20.3	1.3033	10 15.1	0.5858	3.853
23	20.0	0.5549	1.608	1.1353	21 20.9	1.3028	10 11.5	0.5991	3.973
24	20.1	0.5577	+1.619	1.1373	21 21.4	1.3023	10 7.8	0.6118	+4.091

Tag	O ^b Welt-Zeit										
	<i>f'</i>	<i>g'</i>	<i>G'</i>	Allgemeine Präzession seit 1931.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	Δz	$\Delta z'$	<i>j</i>	<i>k</i>
1931	in 0.001	in 0.01				in 0.01	23° 27'		in 0.01	in 0.001	
Juni 13	—17	+11	12.2	+22.39	—3.54	—28	1.99	+8.45	+1	49	89
14	—17	11	10.7	22.52	3.49	—27	1.94	8.45	—4	49	89
15	—13	12	9.1	22.66	3.43	—21	1.89	8.45	—8	50	89
16	—7	11	7.6	22.80	3.38	—12	1.86	8.44	—10	50	89
17	0	11	6.0	22.94	3.33	0	1.86	8.44	—11	50	89
18	+7	10	4.1	23.07	3.27	+11	1.88	8.44	—9	50	89
19	+12	+9	2.1	+23.21	—3.22	+20	1.91	+8.44	—5	51	89
20	+14	9	23.7	23.35	3.17	+23	1.97	8.44	+1	51	89
21	+12	10	21.5	23.49	3.11	+20	2.02	8.44	+6	51	89
22	+7	11	19.7	23.62	3.06	+12	2.05	8.44	+10	51	89
23	+1	11	18.2	23.76	3.00	+1	2.07	8.44	+11	51	89
24	—6	11	16.6	23.90	2.95	—10	2.06	8.44	+10	52	89
25	—11	+10	14.8	+24.04	—2.89	—18	2.02	+8.45	+6	52	89
26	—13	9	12.7	24.17	2.84	—21	1.98	8.45	+1	52	89
27	—12	8	10.3	24.31	2.78	—19	1.93	8.45	—4	52	89
28	—7	9	8.0	24.45	2.73	—12	1.89	8.46	—8	53	89
29	—1	10	6.1	24.59	2.68	—1	1.87	8.46	—10	53	89
30	+6	11	4.6	24.73	2.62	+10	1.87	8.47	—11	53	89
Juli 1	+12	+11	3.2	+24.86	—2.57	+19	1.90	+8.48	—8	53	89
2	+15	11	1.7	25.00	2.52	+25	1.94	8.48	—5	54	89
3	+16	10	0.2	25.14	2.47	+26	1.99	8.49	0	54	89
4	+14	10	22.5	25.28	2.42	+24	2.04	8.50	+4	54	89
5	+10	10	20.9	25.41	2.36	+17	2.08	8.51	+7	55	89
6	+4	10	19.1	25.55	2.31	+7	2.11	8.51	+9	55	89
7	—2	+10	17.5	+25.69	—2.26	—4	2.12	+8.52	+10	55	89
8	—9	10	15.8	25.83	2.22	—14	2.12	8.53	+9	55	89
9	—14	11	14.2	25.96	2.17	—22	2.10	8.54	+6	56	89
10	—17	11	12.6	26.10	2.12	—28	2.07	8.56	+2	56	88
11	—17	12	11.1	26.24	2.07	—28	2.03	8.57	—3	56	88
12	—15	12	9.7	26.38	2.03	—24	2.00	8.58	—7	56	88
13	—10	+12	8.2	+26.51	—1.98	—16	1.98	+8.59	—10	57	88
14	—3	11	6.6	26.65	1.94	—4	1.98	8.60	—11	57	88
15	+4	10	4.9	26.79	1.89	+7	2.01	8.62	—10	57	88
16	+10	9	2.8	26.93	1.85	+17	2.06	8.63	—6	58	88
17	+14	9	0.4	27.06	1.81	+22	2.12	8.64	—1	58	88
18	+13	10	22.2	27.20	1.77	+22	2.19	8.66	+4	58	88
19	+10	+11	20.4	+27.34	—1.73	+16	2.24	+8.67	+9	58	88
20	+4	11	18.8	27.48	1.69	+6	2.28	8.69	+11	59	88
21	—3	11	17.3	27.62	1.65	—5	2.29	8.70	+11	59	88
22	—9	10	15.6	27.75	1.61	—14	2.28	8.72	+8	59	87
23	—12	8	13.5	27.89	1.58	—19	2.25	8.74	+3	59	87
24	—12	+8	11.0	+28.03	—1.54	—19	2.21	+8.75	—2	60	87

Tag	O ^h Welt-Zeit								
	St.-Zt. Grw.	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1931									
Juli 24	20.1 ^h	0.5577 ^m	+1.619 ^s	1.1373	21 ^h 21.4 ^m	1.3023	10 ^h 7.8 ^m	0.6118	+4.091 ^s
25	20.1	0.5604	1.629	1.1393	21 21.9	1.3017	10 4.2	0.6241	4.208
26	20.2	0.5631	1.640	1.1413	21 22.4	1.3012	10 0.5	0.6358	4.323
27	20.2	0.5659	1.650	1.1433	21 22.9	1.3007	9 56.8	0.6471	4.437
28	20.3	0.5686	1.660	1.1453	21 23.4	1.3001	9 53.1	0.6581	4.551
29	20.4	0.5713	1.670	1.1472	21 23.8	1.2995	9 49.4	0.6687	4.663
30	20.4	0.5741	+1.680	1.1491	21 24.3	1.2990	9 45.7	0.6789	+4.774
31	20.5	0.5768	1.690	1.1510	21 24.7	1.2984	9 42.0	0.6887	4.883
Aug. 1	20.6	0.5796	1.700	1.1529	21 25.1	1.2978	9 38.3	0.6982	4.991
2	20.6	0.5823	1.710	1.1548	21 25.5	1.2972	9 34.5	0.7074	5.098
3	20.7	0.5850	1.720	1.1567	21 25.9	1.2966	9 30.8	0.7163	5.204
4	20.8	0.5878	1.729	1.1585	21 26.3	1.2960	9 27.0	0.7249	5.308
5	20.8	0.5905	+1.739	1.1603	21 26.7	1.2954	9 23.3	0.7332	+5.410
6	20.9	0.5932	1.749	1.1621	21 27.1	1.2948	9 19.5	0.7412	5.511
7	21.0	0.5960	1.758	1.1639	21 27.4	1.2942	9 15.7	0.7490	5.610
8	21.0	0.5987	1.767	1.1657	21 27.8	1.2935	9 11.9	0.7565	5.708
9	21.1	0.6015	1.777	1.1675	21 28.1	1.2929	9 8.1	0.7638	5.805
10	21.2	0.6042	1.786	1.1692	21 28.5	1.2923	9 4.2	0.7709	5.900
11	21.2	0.6069	+1.795	1.1709	21 28.8	1.2916	9 0.4	0.7776	+5.993
12	21.3	0.6097	1.804	1.1726	21 29.1	1.2910	8 56.5	0.7843	6.085
13	21.4	0.6124	1.813	1.1743	21 29.4	1.2904	8 52.7	0.7906	6.175
14	21.4	0.6151	1.822	1.1759	21 29.7	1.2898	8 48.8	0.7968	6.263
15	21.5	0.6179	1.830	1.1776	21 30.0	1.2891	8 44.9	0.8027	6.349
16	21.6	0.6206	1.839	1.1792	21 30.3	1.2885	8 41.0	0.8085	6.434
17	21.6	0.6234	+1.848	1.1808	21 30.6	1.2879	8 37.1	0.8140	+6.517
18	21.7	0.6261	1.856	1.1824	21 30.9	1.2873	8 33.1	0.8194	6.598
19	21.8	0.6288	1.865	1.1840	21 31.2	1.2867	8 29.2	0.8246	6.677
20	21.8	0.6316	1.873	1.1855	21 31.5	1.2861	8 25.2	0.8296	6.754
21	21.9	0.6343	1.881	1.1870	21 31.8	1.2855	8 21.3	0.8344	6.829
22	22.0	0.6371	1.889	1.1885	21 32.0	1.2849	8 17.3	0.8390	6.903
23	22.0	0.6398	+1.897	1.1900	21 32.3	1.2843	8 13.3	0.8435	+6.975
24	22.1	0.6425	1.905	1.1915	21 32.6	1.2837	8 9.3	0.8479	7.045
25	22.2	0.6453	1.913	1.1929	21 32.8	1.2832	8 5.2	0.8521	7.113
26	22.2	0.6480	1.921	1.1943	21 33.1	1.2826	8 1.2	0.8561	7.179
27	22.3	0.6507	1.929	1.1957	21 33.4	1.2821	7 57.2	0.8599	7.243
28	22.4	0.6535	1.937	1.1971	21 33.6	1.2815	7 53.1	0.8636	7.304
29	22.4	0.6562	+1.945	1.1984	21 33.9	1.2810	7 49.0	0.8671	+7.364
30	22.5	0.6590	1.952	1.1997	21 34.1	1.2805	7 45.0	0.8705	7.422
31	22.5	0.6617	1.960	1.2010	21 34.4	1.2800	7 40.9	0.8737	7.477
Sept. 1	22.6	0.6644	1.967	1.2023	21 34.6	1.2795	7 36.8	0.8769	7.531
2	22.7	0.6672	1.975	1.2036	21 34.9	1.2791	7 32.7	0.8798	7.583
3	22.7	0.6699	+1.982	1.2049	21 35.1	1.2786	7 28.5	0.8826	+7.632

Tag		0 ^h Welt-Zeit											
		<i>f'</i>	<i>g'</i>	<i>G'</i>	Allgemeine Präzession seit 1931.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	<i>j</i>	<i>k</i>	
1931		in 0.001	in 0.01				in 0.01	23° 27'		in 0.01	in 0.001		
Juli	24	—12	+ 8	11.0	+28.03	—1.54	—19	2.21	+8.75	— 2	60	87	
	25	— 8	9	8.5	28.17	1.51	—13	2.18	8.77	— 7	60	87	
	26	— 2	10	6.6	28.30	1.48	— 4	2.16	8.79	—10	60	87	
	27	+ 4	11	5.0	28.44	1.45	+ 7	2.17	8.80	—11	61	87	
	28	+10	11	3.6	28.58	1.42	+17	2.20	8.82	— 9	61	87	
	29	+15	11	2.2	28.72	1.39	+24	2.25	8.84	— 6	61	87	
	30	+16	+11	0.7	+28.85	—1.36	+27	2.31	+8.86	— 2	61	87	
	31	+15	10	23.0	28.99	1.34	+25	2.37	8.88	+ 3	62	87	
	Aug.	1	+12	10	21.3	29.13	1.31	+19	2.43	8.90	+ 6	62	86
		2	+ 6	10	19.6	29.27	1.29	+10	2.47	8.91	+ 9	62	86
3		0	10	18.0	29.40	1.27	0	2.50	8.93	+10	62	86	
4		— 7	10	16.3	29.54	1.25	—11	2.51	8.95	+ 9	63	86	
5		—13	+11	14.7	+29.68	—1.23	—21	2.50	+8.97	+ 7	63	86	
6		—16	11	13.1	29.82	1.21	—27	2.48	8.99	+ 3	63	86	
7		—18	12	11.6	29.95	1.19	—29	2.45	9.01	— 1	64	86	
8		—16	12	10.2	30.09	1.18	—27	2.43	9.03	— 5	64	86	
9		—12	12	8.8	30.23	1.16	—20	2.41	9.05	— 9	64	85	
10		— 6	11	7.3	30.37	1.15	—10	2.41	9.06	—11	64	85	
11		+ 1	+10	5.7	+30.50	—1.14	+ 2	2.43	+9.08	—10	65	85	
12		+ 8	9	3.7	30.64	1.13	+13	2.48	9.10	— 7	65	85	
13		+12	8	1.3	30.78	1.12	+20	2.55	9.12	— 3	65	85	
14		+13	9	22.9	30.92	1.12	+21	2.62	9.14	+ 3	65	85	
15		+11	10	20.9	31.06	1.11	+17	2.68	9.16	+ 7	66	85	
16		+ 6	11	19.3	31.19	1.11	+ 9	2.73	9.18	+10	66	85	
17		— 1	+11	17.8	+31.33	—1.10	— 1	2.76	+9.20	+11	66	84	
18		— 7	10	16.3	31.47	1.10	—11	2.75	9.22	+ 9	66	84	
19		—11	8	14.3	31.61	1.10	—17	2.73	9.23	+ 5	66	84	
20		—11	7	11.8	31.74	1.10	—19	2.69	9.25	0	67	84	
21		— 9	8	9.1	31.88	1.11	—14	2.65	9.27	— 5	67	84	
22		— 4	9	6.9	32.02	1.11	— 6	2.63	9.29	— 9	67	84	
23		+ 3	+11	5.3	+32.16	—1.11	+ 5	2.63	+9.30	—11	67	84	
24		+10	12	3.9	32.29	1.12	+16	2.66	9.32	—10	68	84	
25		+14	12	2.5	32.43	1.13	+23	2.70	9.34	— 7	68	84	
26		+17	11	1.1	32.57	1.14	+27	2.76	9.35	— 3	68	83	
27		+16	11	23.5	32.71	1.15	+27	2.81	9.37	+ 1	68	83	
28		+13	10	21.9	32.84	1.16	+22	2.87	9.38	+ 5	69	83	
29	+ 9	+10	20.2	+32.98	—1.17	+14	2.91	+9.40	+ 8	69	83		
30	+ 2	10	18.5	33.12	1.18	+ 3	2.94	9.41	+10	69	83		
31	— 5	10	16.9	33.26	1.20	— 7	2.95	9.43	+10	69	83		
Sept.	1	—11	10	15.2	33.39	1.21	—17	2.95	9.44	+ 8	69	83	
	2	—15	11	13.6	33.53	1.23	—25	2.93	9.46	+ 4	70	83	
	3	—18	+11	12.0	+33.67	—1.25	—29	2.89	+9.47	0	70	83	

Reduktionsgrößen 1931

Tag		O ^h Welt-Zeit								
		St.-Zt. Grw.	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1931										
Sept.	3	22.7 ^h	0.6699 ^a	+1.982	1.2049	21 35.1 ^m	1.2786	7 28.5 ^m	0.8826	+7.632
	4	22.8	0.6726	1.989	1.2061	21 35.4	1.2782	7 24.4	0.8852	7.678
	5	22.9	0.6754	1.997	1.2074	21 35.6	1.2778	7 20.3	0.8878	7.723
	6	22.9	0.6781	2.004	1.2086	21 35.9	1.2774	7 16.1	0.8902	7.766
	7	23.0	0.6809	2.011	1.2098	21 36.2	1.2770	7 11.9	0.8925	7.807
	8	23.1	0.6836	2.018	1.2110	21 36.4	1.2766	7 7.8	0.8946	7.845
	9	23.1	0.6863	+2.025	1.2121	21 36.7	1.2763	7 3.6	0.8966	+7.881
	10	23.2	0.6891	2.032	1.2133	21 37.0	1.2759	6 59.4	0.8984	7.914
	11	23.3	0.6918	2.039	1.2144	21 37.2	1.2756	6 55.2	0.9001	7.946
	12	23.3	0.6945	2.046	1.2155	21 37.5	1.2754	6 51.0	0.9018	7.976
	13	23.4	0.6973	2.053	1.2166	21 37.8	1.2751	6 46.8	0.9033	8.003
	14	23.5	0.7000	2.060	1.2176	21 38.1	1.2749	6 42.6	0.9046	8.027
	15	23.5	0.7028	+2.067	1.2187	21 38.3	1.2746	6 38.3	0.9057	+8.049
	16	23.6	0.7055	2.074	1.2197	21 38.6	1.2744	6 34.1	0.9069	8.070
	17	23.7	0.7082	2.080	1.2208	21 38.9	1.2743	6 29.9	0.9078	8.088
	18	23.7	0.7110	2.087	1.2218	21 39.2	1.2741	6 25.6	0.9086	8.103
	19	23.8	0.7137	2.094	1.2228	21 39.5	1.2740	6 21.4	0.9093	8.116
	20	23.9	0.7165	2.101	1.2238	21 39.8	1.2739	6 17.1	0.9099	8.126
	21	23.9	0.7192	+2.107	1.2248	21 40.1	1.2738	6 12.8	0.9103	+8.134
	22	0.0	0.7219	2.114	1.2257	21 40.4	1.2737	6 8.6	0.9106	8.140
	23	0.1	0.7247	2.121	1.2267	21 40.8	1.2737	6 4.3	0.9108	8.144
	24	0.1	0.7274	2.128	1.2276	21 41.1	1.2737	6 0.0	0.9109	8.146
25	0.2	0.7301	2.134	1.2285	21 41.4	1.2737	5 55.8	0.9109	8.145	
26	0.3	0.7329	2.141	1.2295	21 41.8	1.2737	5 51.5	0.9107	8.141	
Okt.	27	0.3	0.7356	+2.148	1.2304	21 42.1	1.2738	5 47.2	0.9103	+8.134
	28	0.4	0.7384	2.155	1.2313	21 42.5	1.2739	5 42.9	0.9099	8.126
	29	0.5	0.7411	2.161	1.2322	21 42.8	1.2740	5 38.7	0.9093	8.116
	30	0.5	0.7438	2.168	1.2331	21 43.2	1.2741	5 34.4	0.9086	8.103
	1	0.6	0.7466	2.175	1.2339	21 43.5	1.2743	5 30.1	0.9078	8.087
	2	0.6	0.7493	2.182	1.2348	21 43.9	1.2744	5 25.8	0.9068	8.069
	3	0.7	0.7520	+2.188	1.2357	21 44.3	1.2746	5 21.6	0.9057	+8.049
	4	0.8	0.7548	2.195	1.2366	21 44.7	1.2749	5 17.3	0.9045	8.026
	5	0.8	0.7575	2.202	1.2374	21 45.1	1.2751	5 13.0	0.9031	8.001
	6	0.9	0.7603	2.209	1.2383	21 45.5	1.2754	5 8.8	0.9017	7.974
	7	1.0	0.7630	2.216	1.2391	21 45.9	1.2757	5 4.5	0.9000	7.944
	8	1.0	0.7657	2.223	1.2399	21 46.3	1.2760	5 0.2	0.8983	7.912
	9	1.1	0.7685	+2.230	1.2408	21 46.7	1.2763	4 56.0	0.8964	+7.877
	10	1.2	0.7712	2.237	1.2416	21 47.2	1.2767	4 51.7	0.8943	7.840
	11	1.2	0.7739	2.244	1.2425	21 47.6	1.2770	4 47.5	0.8922	7.801
	12	1.3	0.7767	2.251	1.2433	21 48.0	1.2774	4 43.2	0.8898	7.759
	13	1.4	0.7794	2.259	1.2442	21 48.5	1.2778	4 39.0	0.8873	7.715
	14	1.4	0.7822	+2.266	1.2450	21 48.9	1.2783	4 34.8	0.8847	+7.669

Tag	O ^b Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1931.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1931	in 0.001	in 0.01				in 0.01	23° 27'		in 0.01	in 0.001	
Sept. 3	—18	+11	12.0	+33.67	—1.25	—29	2.89	+9.47	0	70	83
4	—17	12	10.6	33.81	1.26	—28	2.86	9.48	—4	70	83
5	—14	12	9.2	33.94	1.28	—23	2.84	9.50	—8	70	83
6	—9	12	7.9	34.08	1.30	—14	2.82	9.51	—10	70	82
7	—2	11	6.4	34.22	1.32	—3	2.83	9.52	—10	71	82
8	+5	9	4.7	34.36	1.34	+8	2.86	9.53	—9	71	82
9	+10	+8	2.3	+34.50	—1.36	+16	2.91	+9.54	—4	71	82
10	+12	8	23.6	34.63	1.39	+20	2.97	9.55	+1	71	82
11	+11	9	21.3	34.77	1.41	+17	3.03	9.56	+6	71	82
12	+6	11	19.5	34.91	1.43	+10	3.08	9.57	+10	71	82
13	0	11	18.1	35.05	1.46	+1	3.10	9.57	+11	72	82
14	—6	11	16.6	35.18	1.48	—9	3.09	9.58	+10	72	82
15	—10	+9	15.0	+35.32	—1.51	—16	3.06	+9.59	+6	72	82
16	—12	8	12.7	35.46	1.54	—19	3.02	9.59	+1	72	82
17	—10	7	9.9	35.60	1.56	—16	2.97	9.60	—4	72	82
18	—5	9	7.5	35.73	1.59	—8	2.93	9.60	—8	73	82
19	+2	11	5.6	35.87	1.62	+2	2.91	9.61	—11	73	82
20	+8	12	4.2	36.01	1.64	+14	2.91	9.61	—11	73	82
21	+14	+12	2.8	+36.15	—1.67	+23	2.93	+9.62	—8	73	82
22	+17	12	1.5	36.28	1.70	+28	2.97	9.62	—4	73	82
23	+18	11	0.0	36.42	1.73	+29	3.02	9.62	0	73	82
24	+15	11	22.4	36.56	1.76	+25	3.06	9.62	+4	74	82
25	+11	11	20.8	36.70	1.79	+18	3.10	9.62	+8	74	82
26	+5	10	19.2	36.83	1.81	+8	3.11	9.62	+10	74	82
27	—2	+10	17.5	+36.97	—1.84	—3	3.11	+9.62	+10	74	82
28	—8	10	15.8	37.11	1.87	—14	3.09	9.62	+8	74	82
29	—13	10	14.1	37.25	1.90	—22	3.06	9.62	+5	74	82
30	—17	11	12.5	37.39	1.92	—27	3.02	9.61	+1	74	82
Okt. 1	—17	11	11.0	37.52	1.95	—28	2.97	9.61	—3	75	82
2	—15	12	9.6	37.66	1.98	—24	2.92	9.61	—7	75	82
3	—10	+12	8.2	+37.80	—2.00	—17	2.89	+9.60	—10	75	82
4	—4	11	6.9	37.94	2.03	—6	2.87	9.60	—11	75	82
5	+3	10	5.3	38.07	2.05	+4	2.88	9.59	—9	75	82
6	+8	8	3.2	38.21	2.08	+13	2.91	9.59	—6	75	82
7	+11	7	0.5	38.35	2.10	+18	2.95	9.58	—1	75	82
8	+10	8	21.8	38.49	2.13	+17	2.99	9.57	+4	76	82
9	+7	+10	19.8	+38.62	—2.15	+11	3.03	+9.56	+9	76	82
10	+1	11	18.3	38.76	2.17	+2	3.04	9.55	+11	76	82
11	—5	11	16.9	38.90	2.19	—8	3.03	9.54	+11	76	82
12	—10	10	15.3	39.04	2.21	—16	2.99	9.53	+8	76	82
13	—13	9	13.4	39.17	2.23	—21	2.93	9.52	+3	76	83
14	—12	+8	10.9	+39.31	—2.25	—19	2.86	+9.51	—2	76	83

Tag	O ^h Welt-Zeit								
	St.-Zt. Grw.	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1931									
Okt. 14	^h 1.4	^a 0.7822	+2.266	1.2450	^h 21 48.9	1.2783	^h 4 34.8	0.8847	+7.669
15	1.5	0.7849	2.273	1.2458	21 49.4	1.2787	4 30.5	0.8820	7.621
16	1.6	0.7876	2.281	1.2467	21 49.9	1.2792	4 26.3	0.8791	7.570
17	1.6	0.7904	2.288	1.2475	21 50.4	1.2797	4 22.1	0.8760	7.516
18	1.7	0.7931	2.296	1.2484	21 50.9	1.2802	4 17.9	0.8728	7.461
19	1.8	0.7959	2.303	1.2492	21 51.3	1.2807	4 13.7	0.8695	7.404
20	1.8	0.7986	+2.311	1.2501	21 51.8	1.2812	4 9.5	0.8659	+7.344
21	1.9	0.8013	2.319	1.2510	21 52.3	1.2817	4 5.3	0.8623	7.282
22	2.0	0.8041	2.327	1.2518	21 52.8	1.2823	4 1.2	0.8584	7.217
23	2.0	0.8068	2.335	1.2527	21 53.4	1.2829	3 57.0	0.8543	7.150
24	2.1	0.8095	2.343	1.2535	21 53.9	1.2834	3 52.8	0.8501	7.081
25	2.2	0.8123	2.351	1.2544	21 54.4	1.2840	3 48.7	0.8457	7.010
26	2.2	0.8150	+2.359	1.2553	21 54.9	1.2846	3 44.5	0.8412	+6.937
27	2.3	0.8178	2.367	1.2562	21 55.5	1.2852	3 40.4	0.8364	6.861
28	2.4	0.8205	2.375	1.2571	21 56.0	1.2859	3 36.3	0.8314	6.783
29	2.4	0.8232	2.384	1.2581	21 56.5	1.2865	3 32.2	0.8263	6.704
30	2.5	0.8260	2.392	1.2590	21 57.1	1.2871	3 28.1	0.8211	6.623
31	2.6	0.8287	2.401	1.2599	21 57.7	1.2877	3 24.0	0.8155	6.539
Nov. 1	2.6	0.8314	+2.410	1.2609	21 58.2	1.2884	3 19.9	0.8098	+6.453
2	2.7	0.8342	2.418	1.2618	21 58.8	1.2890	3 15.8	0.8038	6.365
3	2.8	0.8369	2.427	1.2628	21 59.4	1.2897	3 11.8	0.7976	6.275
4	2.8	0.8397	2.436	1.2638	21 59.9	1.2903	3 7.7	0.7913	6.184
5	2.9	0.8424	2.445	1.2648	22 0.5	1.2910	3 3.7	0.7846	6.090
6	2.9	0.8451	2.455	1.2658	22 1.1	1.2917	2 59.7	0.7777	5.994
7	3.0	0.8479	+2.464	1.2668	22 1.6	1.2923	2 55.6	0.7706	+5.896
8	3.1	0.8506	2.473	1.2678	22 2.2	1.2930	2 51.6	0.7632	5.797
9	3.1	0.8533	2.483	1.2688	22 2.8	1.2936	2 47.6	0.7556	5.696
10	3.2	0.8561	2.492	1.2699	22 3.4	1.2943	2 43.6	0.7476	5.593
11	3.3	0.8588	2.502	1.2710	22 3.9	1.2949	2 39.6	0.7394	5.488
12	3.3	0.8616	2.511	1.2721	22 4.5	1.2956	2 35.7	0.7309	5.381
13	3.4	0.8643	+2.521	1.2732	22 5.1	1.2962	2 31.7	0.7221	+5.273
14	3.5	0.8670	2.531	1.2743	22 5.7	1.2968	2 27.8	0.7129	5.163
15	3.5	0.8698	2.541	1.2754	22 6.3	1.2975	2 23.8	0.7035	5.052
16	3.6	0.8725	2.552	1.2766	22 6.8	1.2981	2 19.9	0.6936	4.939
17	3.7	0.8753	2.562	1.2777	22 7.4	1.2987	2 16.0	0.6834	4.824
18	3.7	0.8780	2.572	1.2789	22 8.0	1.2993	2 12.1	0.6728	4.708
19	3.8	0.8807	+2.583	1.2800	22 8.5	1.2999	2 8.2	0.6618	+4.590
20	3.9	0.8835	2.593	1.2812	22 9.1	1.3005	2 4.3	0.6504	4.471
21	3.9	0.8862	2.604	1.2824	22 9.7	1.3011	2 0.4	0.6385	4.350
22	4.0	0.8889	2.614	1.2836	22 10.3	1.3016	1 56.5	0.6261	4.228
23	4.1	0.8917	2.625	1.2849	22 10.8	1.3022	1 52.6	0.6133	4.105
24	4.1	0.8944	+2.636	1.2861	22 11.4	1.3027	1 48.8	0.5999	+3.980

Tag	0 ^h Welt-Zeit										
	<i>f'</i>	<i>g'</i>	<i>G'</i>	Allgemeine Präzession seit 1931.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	Δz	$\Delta z'$	<i>j</i>	<i>k</i>
1931	ino.001	ino.01				ino.01	23° 27'		ino.01	ino.001	
Okt. 14	—12	+ 8	10.9	+39.31	—2.25	—19	2.86	+9.51	— 2	76	83
15	— 8	8	8.3	39.45	2.27	—12	2.80	9.50	— 7	77	83
16	— 1	10	6.3	39.59	2.28	— 2	2.76	9.49	—10	77	83
17	+ 6	12	4.7	39.72	2.30	+10	2.73	9.48	—11	77	83
18	+13	12	3.2	39.86	2.31	+21	2.74	9.46	— 9	77	83
19	+17	12	1.9	40.00	2.33	+28	2.76	9.45	— 6	77	83
20	+18	+12	0.4	+40.14	—2.34	+30	2.78	+9.44	— 1	77	83
21	+17	11	23.0	40.27	2.35	+28	2.81	9.42	+ 3	78	83
22	+13	11	21.4	40.41	2.36	+21	2.84	9.41	+ 7	78	83
23	+ 7	10	19.8	40.55	2.37	+12	2.84	9.39	+ 9	78	83
24	+ 1	10	18.1	40.69	2.37	+ 1	2.83	9.37	+10	78	84
25	— 6	10	16.5	40.83	2.38	—10	2.81	9.36	+ 9	78	84
26	—11	+10	14.7	+40.96	—2.38	—19	2.76	+9.34	+ 6	78	84
27	—15	10	13.1	41.10	2.39	—25	2.71	9.33	+ 3	79	84
28	—16	11	11.4	41.24	2.39	—27	2.64	9.31	— 2	79	84
29	—15	11	9.9	41.38	2.39	—24	2.58	9.29	— 6	79	84
30	—11	12	8.5	41.51	2.39	—18	2.53	9.27	— 9	79	84
31	— 5	11	7.2	41.65	2.38	— 9	2.50	9.26	—11	79	84
Nov. 1	+ 1	+10	5.7	+41.79	—2.38	+ 2	2.49	+9.24	—10	79	85
2	+ 7	8	3.9	41.93	2.37	+11	2.49	9.22	— 7	80	85
3	+10	7	1.4	42.06	2.36	+17	2.52	9.20	— 3	80	85
4	+11	8	22.6	42.20	2.36	+18	2.55	9.18	+ 3	80	85
5	+ 8	9	20.3	42.34	2.34	+13	2.58	9.16	+ 7	80	85
6	+ 3	11	18.6	42.48	2.33	+ 4	2.59	9.15	+11	80	85
7	— 4	+11	17.2	+42.61	—2.32	— 6	2.58	+9.13	+11	80	85
8	—10	11	15.7	42.75	2.30	—16	2.54	9.11	+ 9	81	85
9	—13	10	13.9	42.89	2.29	—22	2.47	9.09	+ 5	81	86
10	—14	9	11.7	43.03	2.27	—22	2.40	9.07	— 1	81	86
11	—10	9	9.3	43.16	2.25	—17	2.33	9.05	— 6	81	86
12	— 4	10	7.1	43.30	2.23	— 7	2.27	9.03	— 9	81	86
13	+ 3	+11	5.3	+43.44	—2.20	+ 5	2.24	+9.01	—11	82	86
14	+10	12	3.8	43.58	2.18	+17	2.22	9.00	—10	82	86
15	+16	12	2.3	43.72	2.15	+26	2.24	8.98	— 7	82	86
16	+18	12	0.9	43.85	2.12	+30	2.26	8.96	— 3	82	86
17	+18	12	23.4	43.99	2.09	+29	2.29	8.94	+ 2	82	87
18	+15	11	21.8	44.13	2.06	+24	2.31	8.92	+ 6	83	87
19	+ 9	+11	20.3	+44.27	—2.03	+15	2.32	+8.91	+ 9	83	87
20	+ 3	10	18.7	44.40	1.99	+ 5	2.31	8.89	+10	83	87
21	— 4	10	17.1	44.54	1.96	— 6	2.29	8.87	+ 9	83	87
22	—10	10	15.3	44.68	1.92	—16	2.25	8.85	+ 7	84	87
23	—14	10	13.6	44.82	1.88	—22	2.19	8.83	+ 4	84	87
24	—16	+10	11.8	+44.95	—1.84	—26	2.13	+8.82	0	84	87

Tag	O ^b Welt-Zeit								
	St.-Zt. Grw.	<i>t</i>	<i>t</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1931									
Nov. 24	4.1 ^h	0.8944 ^a	+2.636 ^a	1.2861	22 ^h 11.4 ^m	1.3027	1 ^h 48.8 ^m	0.5999	+3.980
25	4.2	0.8972	2.647	1.2874	22 11.9	1.3033	1 44.9	0.5859	3.854
26	4.3	0.8999	2.658	1.2887	22 12.5	1.3038	1 41.1	0.5712	3.726
27	4.3	0.9026	2.669	1.2899	22 13.0	1.3043	1 37.2	0.5561	3.598
28	4.4	0.9054	2.680	1.2912	22 13.6	1.3048	1 33.4	0.5402	3.469
29	4.5	0.9081	2.691	1.2925	22 14.1	1.3053	1 29.6	0.5235	3.338
30	4.5	0.9108	+2.703	1.2939	22 14.6	1.3057	1 25.8	0.5060	+3.206
Dez. 1	4.6	0.9136	2.714	1.2952	22 15.2	1.3062	1 22.0	0.4876	3.073
2	4.7	0.9163	2.726	1.2966	22 15.7	1.3066	1 18.2	0.4682	2.939
3	4.7	0.9191	2.737	1.2979	22 16.2	1.3070	1 14.4	0.4478	2.804
4	4.8	0.9218	2.749	1.2993	22 16.7	1.3074	1 10.6	0.4262	2.668
5	4.9	0.9245	2.761	1.3007	22 17.2	1.3078	1 6.8	0.4033	2.531
6	4.9	0.9273	+2.772	1.3021	22 17.7	1.3081	1 3.0	0.3789	+2.393
7	5.0	0.9300	2.784	1.3035	22 18.2	1.3085	0 59.2	0.3531	2.255
8	5.1	0.9327	2.796	1.3049	22 18.7	1.3088	0 55.5	0.3255	2.116
9	5.1	0.9355	2.808	1.3063	22 19.1	1.3091	0 51.7	0.2958	1.976
10	5.2	0.9382	2.820	1.3078	22 19.6	1.3094	0 47.9	0.2639	1.836
11	5.2	0.9410	2.832	1.3092	22 20.0	1.3096	0 44.2	0.2292	1.695
12	5.3	0.9437	+2.844	1.3107	22 20.5	1.3099	0 40.4	0.1912	+1.553
13	5.4	0.9464	2.856	1.3121	22 20.9	1.3101	0 36.7	0.1495	1.411
14	5.4	0.9492	2.868	1.3136	22 21.4	1.3103	0 32.9	0.1031	1.268
15	5.5	0.9519	2.880	1.3150	22 21.8	1.3105	0 29.2	0.0512	1.125
16	5.6	0.9547	2.892	1.3165	22 22.2	1.3106	0 25.4	9.9921	0.982
17	5.6	0.9574	2.905	1.3180	22 22.6	1.3108	0 21.7	9.9232	0.838
18	5.7	0.9601	+2.917	1.3195	22 23.0	1.3109	0 17.9	9.8414	+0.694
19	5.8	0.9629	2.929	1.3210	22 23.4	1.3110	0 14.2	9.7404	0.550
20	5.8	0.9656	2.941	1.3225	22 23.8	1.3110	0 10.5	9.6085	0.406
21	5.9	0.9683	2.953	1.3240	22 24.1	1.3111	0 6.7	9.4166	0.261
22	6.0	0.9711	2.966	1.3255	22 24.5	1.3111	0 3.0	9.0645	+0.116
23	6.0	0.9738	2.978	1.3270	22 24.8	1.3111	23 59.2	8.4624 _n	-0.029
24	6.1	0.9766	+2.990	1.3285	22 25.2	1.3111	23 55.5	9.2380 _n	-0.173
25	6.2	0.9793	3.002	1.3300	22 25.5	1.3111	23 51.8	9.5024 _n	0.318
26	6.2	0.9820	3.015	1.3315	22 25.9	1.3110	23 48.0	9.6656 _n	0.463
27	6.3	0.9848	3.027	1.3330	22 26.2	1.3109	23 44.3	9.7839 _n	0.608
28	6.4	0.9875	3.039	1.3345	22 26.5	1.3108	23 40.5	9.8762 _n	0.752
29	6.4	0.9902	3.051	1.3360	22 26.8	1.3107	23 36.8	9.9523 _n	0.896
30	6.5	0.9930	+3.064	1.3375	22 27.0	1.3106	23 33.1	0.0170 _n	-1.040
31	6.6	0.9957	3.076	1.3390	22 27.3	1.3104	23 29.3	0.0734 _n	1.184
32	6.6	0.9985	+3.088	1.3404	22 27.6	1.3102	23 25.6	0.1229 _n	-1.327

Tag	Ob Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1931.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\epsilon$	$\Delta\epsilon'$	j	k
1931	in 0.001	in 0.01				in 0.01	23° 27'		in 0.01	in 0.001	
Nov. 24	—16	+10	11.8	+44.95	—1.84	—26	2.13	+8.82	0	84	87
25	—15	11	10.3	45.09	1.80	—25	2.07	8.80	—5	84	88
26	—12	11	8.8	45.23	1.76	—19	2.02	8.79	—8	85	88
27	—6	11	7.5	45.37	1.71	—10	1.98	8.77	—10	85	88
28	0	10	6.0	45.50	1.67	0	1.97	8.76	—10	85	88
29	+6	9	4.3	45.64	1.62	+10	1.97	8.74	—8	85	88
30	+10	+8	2.1	+45.78	—1.57	+17	2.00	+8.73	—4	86	88
Dez. 1	+12	8	23.5	45.92	1.52	+19	2.04	8.72	+1	86	88
2	+10	9	21.1	46.05	1.47	+16	2.07	8.70	+6	86	88
3	+5	10	19.2	46.19	1.42	+8	2.09	8.69	+10	86	88
4	—2	11	17.6	46.33	1.37	—3	2.10	8.68	+11	87	88
5	—8	11	16.1	46.47	1.32	—13	2.07	8.67	+10	87	88
6	—13	+11	14.5	+46.60	—1.26	—21	2.02	+8.65	+6	87	88
7	—15	10	12.5	46.74	1.21	—24	1.96	8.64	+1	88	89
8	—13	9	10.2	46.88	1.15	—21	1.89	8.63	—4	88	89
9	—8	10	8.0	47.02	1.09	—12	1.84	8.62	—8	88	89
10	0	11	6.1	47.16	1.03	0	1.81	8.62	—11	88	89
11	+7	12	4.4	47.29	0.97	+12	1.80	8.61	—11	89	89
12	+13	+12	2.9	+47.43	—0.92	+22	1.81	+8.60	—8	89	89
13	+17	12	1.4	47.57	0.86	+28	1.84	8.59	—4	89	89
14	+18	12	23.9	47.71	0.80	+29	1.88	8.59	0	90	89
15	+16	11	22.3	47.84	0.73	+26	1.92	8.58	+5	90	89
16	+11	11	20.7	47.98	0.67	+18	1.95	8.58	+8	90	89
17	+5	10	19.2	48.12	0.61	+8	1.96	8.57	+10	91	89
18	—2	+10	17.5	+48.26	—0.55	—3	1.96	+8.57	+10	91	89
19	—8	10	15.8	48.39	0.49	—13	1.93	8.57	+8	91	89
20	—13	10	14.1	48.53	0.42	—21	1.90	8.57	+5	91	89
21	—15	10	12.3	48.67	0.36	—25	1.86	8.56	+1	92	89
22	—15	11	10.7	48.81	0.30	—25	1.81	8.56	—3	92	89
23	—13	11	9.3	48.94	0.23	—21	1.77	8.56	—7	92	89
24	—8	+11	7.8	+49.08	—0.17	—13	1.74	+8.56	—10	93	89
25	—2	11	6.4	49.22	0.11	—3	1.74	8.56	—11	93	89
26	+5	10	4.8	49.36	—0.04	+8	1.75	8.57	—9	93	89
27	+10	8	2.7	49.49	+0.02	+16	1.79	8.57	—6	94	89
28	+12	8	0.3	49.63	0.08	+20	1.84	8.57	—1	94	89
29	+12	9	21.9	49.77	0.14	+19	1.90	8.58	+5	94	89
30	+8	+10	20.0	+49.91	+0.21	+13	1.94	+8.58	+9	95	89
31	+2	11	18.3	50.04	0.27	+3	1.97	8.59	+11	95	89
32	—5	+11	16.8	+50.18	+0.33	—9	1.97	+8.59	+11	95	89

Reduktionsgrößen 1931

für 12^h Sternzeit Greenwich

Welt-Zeit	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1931			in 0.0001		in "		
Jan. 0.225	-0.0030	-0.10770	-608	-8.074	- 3	- 2.885	+20.227
1.223	-0.0003	0.10378	-572	8.083	+ 45	3.213	20.168
2.220	+0.0025	0.09988	-430	8.093	+ 84	3.540	20.103
3.217	0.0052	0.09599	-212	8.103	+108	3.867	20.031
4.214	0.0079	0.09212	+ 47	8.114	+107	4.192	19.953
5.212	0.0106	0.08825	+284	8.126	+ 81	4.516	19.869
6.209	0.0134	-0.08439	+447	-8.138	+ 36	- 4.839	+19.778
7.206	0.0161	0.08055	+501	8.151	- 16	5.160	19.682
8.203	0.0188	0.07673	+434	8.165	- 69	5.480	19.579
9.201	0.0216	0.07293	+270	8.179	-102	5.798	19.470
10.198	0.0243	0.06915	+ 56	8.194	-111	6.113	19.356
11.195	0.0270	0.06538	-153	8.209	- 95	6.427	19.235
12.192	0.0298	-0.06163	-301	-8.224	- 57	- 6.739	+19.107
13.190	0.0325	0.05791	-358	8.240	- 7	7.049	18.974
14.187	0.0352	0.05421	-310	8.257	+ 42	7.357	18.834
15.184	0.0380	0.05053	-175	8.274	+ 81	7.662	18.689
16.182	0.0407	0.04688	+ 10	8.292	+103	7.964	18.538
17.179	0.0434	0.04325	+201	8.310	+101	8.264	18.382
18.176	0.0461	-0.03965	+362	-8.328	+ 82	- 8.562	+18.219
19.173	0.0489	0.03607	+460	8.346	+ 48	8.857	18.051
20.171	0.0516	0.03252	+482	8.365	+ 6	9.148	17.877
21.168	0.0543	0.02900	+423	8.384	- 35	9.437	17.697
22.165	0.0571	0.02551	+291	8.404	- 71	9.724	17.512
23.162	0.0598	0.02204	+107	8.424	- 94	10.007	17.321
24.160	0.0625	-0.01861	-109	-8.445	-101	-10.287	+17.126
25.157	0.0653	0.01520	-321	8.466	- 91	10.563	16.925
26.154	0.0680	0.01182	-501	8.487	- 63	10.836	16.719
27.152	0.0707	0.00848	-606	8.508	- 22	11.106	16.507
28.149	0.0734	0.00517	-616	8.529	+ 26	11.372	16.290
29.146	0.0762	-0.00188	-524	8.551	+ 71	11.634	16.068
30.143	0.0789	+0.00138	-336	-8.572	+102	-11.893	+15.842
31.141	0.0816	0.00460	- 92	8.594	+111	12.148	15.610
Febr. 1.138	0.0844	0.00779	+156	8.616	+ 95	12.399	15.374
2.135	0.0871	0.01095	+357	8.638	+ 57	12.646	15.133
3.132	0.0898	0.01408	+464	8.660	+ 6	12.889	14.887
4.130	0.0926	0.01718	+454	8.683	- 48	13.128	14.637
5.127	0.0953	+0.02025	+333	-8.705	- 90	-13.363	+14.382
6.124	0.0980	0.02328	+141	8.726	-111	13.594	14.123
7.121	0.1008	0.02628	- 67	8.748	-104	13.820	13.859
8.119	0.1035	0.02925	-238	8.770	- 75	14.042	13.592
9.116	0.1062	0.03219	-328	8.791	- 29	14.260	13.320
10.113	0.1089	+0.03509	-316	-8.812	+ 23	-14.473	+13.044

Reduktionsgrößen 1931

257*

für 12^h Sternzeit Greenwich

Welt-Zeit	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1931			in 0.0001		in 0.001		
Febr. 10.113	0.1089 ^a	+0.03509 ²⁸⁷	—316	—8.812 ²²	+ 23	—14.473 ²⁰⁹	+13.044 ²⁸¹
11.111	0.1117	0.03796 ²⁸⁵	—212	8.834 ²¹	+ 68	14.682 ²⁰³	12.763 ²⁸⁴
12.108	0.1144	0.04081 ²⁸²	— 39	8.855 ²¹	+ 96	14.885 ¹⁹⁹	12.479 ²⁸⁷
13.105	0.1171	0.04363 ²⁷⁸	+154	8.876 ²¹	+105	15.084 ¹⁹⁴	12.192 ²⁹⁰
14.102	0.1199	0.04641 ²⁷⁵	+331	8.897 ²¹	+ 92	15.278 ¹⁹⁰	11.902 ²⁹⁵
15.100	0.1226	0.04916 ²⁷³	+455	8.918 ²¹	+ 62	15.468 ¹⁸⁵	11.607 ²⁹⁸
16.097	0.1253	+0.05189 ²⁶⁹	+504	—8.939 ²⁰	+ 23	—15.653 ¹⁸⁰	+11.309 ³⁰²
17.094	0.1281	0.05458 ²⁶⁷	+472	8.959 ¹⁹	— 18	15.833 ¹⁷⁵	11.007 ³⁰⁵
18.091	0.1308	0.05725 ²⁶⁴	+364	8.978 ²⁰	— 59	16.008 ¹⁷⁰	10.702 ³⁰⁸
19.089	0.1335	0.05989 ²⁶¹	+197	8.998 ¹⁹	— 87	16.178 ¹⁶⁵	10.394 ³¹¹
20.086	0.1362	0.06250 ²⁵⁸	— 12	9.017 ¹⁸	—101	16.343 ¹⁶⁰	10.083 ³¹⁴
21.083	0.1390	0.06508 ²⁵⁶	—228	9.035 ¹⁸	— 97	16.503 ¹⁵⁴	9.769 ³¹⁷
22.081	0.1417	+0.06764 ²⁵³	—426	—9.053 ¹⁸	— 74	—16.657 ¹⁵⁰	+ 9.452 ³¹⁹
23.078	0.1444	0.07017 ²⁵⁰	—565	9.071 ¹⁸	— 37	16.807 ¹⁴⁴	9.133 ³²²
24.075	0.1472	0.07267 ²⁴⁸	—619	9.089 ¹⁸	+ 8	16.951 ¹³⁹	8.811 ³²⁵
25.072	0.1499	0.07515 ²⁴⁶	—575	9.107 ¹⁷	+ 54	17.090 ¹³³	8.486 ³²⁷
26.070	0.1526	0.07761 ²⁴⁴	—432	9.124 ¹⁶	+ 91	17.223 ¹²⁹	8.159 ³³⁰
27.067	0.1554	0.08005 ²⁴¹	—217	9.140 ¹⁶	+109	17.352 ¹²³	7.829 ³³²
28.064	0.1581	+0.08246 ²³⁹	+ 29	—9.156 ¹⁵	+103	—17.475 ¹¹⁸	+ 7.497 ³³⁴
März 1.061	0.1608	0.08485 ²³⁸	+249	9.171 ¹⁵	+ 73	17.593 ¹¹¹	7.163 ³³⁶
2.059	0.1636	0.08723 ²³⁶	+393	9.186 ¹⁴	+ 25	17.704 ¹⁰⁶	6.827 ³³⁷
3.056	0.1663	0.08959 ²³³	+430	9.200 ¹³	— 29	17.810 ¹⁰²	6.490 ³⁴⁰
4.053	0.1690	0.09192 ²³¹	+353	9.213 ¹³	— 77	17.912 ⁹⁶	6.150 ³⁴²
5.050	0.1717	0.09423 ²³⁰	+189	9.226 ¹²	—107	18.008 ⁹⁰	5.808 ³⁴³
6.048	0.1745	+0.09653 ²²⁸	— 12	—9.238 ¹²	—112	—18.098 ⁸⁴	+ 5.465 ³⁴⁴
7.045	0.1772	0.09881 ²²⁷	—197	9.250 ¹¹	— 89	18.182 ⁷⁹	5.121 ³⁴⁶
8.042	0.1799	0.10108 ²²⁵	—313	9.261 ¹¹	— 48	18.261 ⁷⁴	4.775 ³⁴⁸
9.040	0.1827	0.10333 ²²⁴	—334	9.272 ¹⁰	+ 4	18.335 ⁶⁸	4.427 ³⁴⁸
10.037	0.1854	0.10557 ²²³	—253	9.282 ⁹	+ 53	18.403 ⁶²	4.079 ³⁴⁹
11.034	0.1881	0.10780 ²²¹	— 97	9.291 ⁹	+ 90	18.465 ⁵⁷	3.730 ³⁵⁰
12.031	0.1909	+0.11001 ²²¹	+102	—9.300 ⁸	+107	—18.522 ⁵¹	+ 3.380 ³⁵¹
13.029	0.1936	0.11222 ²²⁰	+296	9.308 ⁸	+101	18.573 ⁴⁶	3.029 ³⁵²
14.026	0.1963	0.11442 ²¹⁹	+444	9.316 ⁷	+ 77	18.619 ³⁹	2.677 ³⁵²
15.023	0.1990	0.11661 ²¹⁹	+522	9.323 ⁶	+ 40	18.658 ³⁴	2.325 ³⁵³
16.020	0.2018	0.11880 ²¹⁸	+519	9.329 ⁶	— 3	18.692 ²⁹	1.972 ³⁵³
17.018	0.2045	0.12098 ²¹⁸	+437	9.335 ⁵	— 44	18.721 ²²	1.619 ³⁵⁴
18.015	0.2072	+0.12316 ²¹⁸	+286	—9.340 ⁴	— 76	—18.743 ¹⁸	+ 1.265 ³⁵⁴
19.012	0.2100	0.12534 ²¹⁷	+ 90	9.344 ³	— 97	18.761 ¹¹	0.911 ³⁵⁴
20.010	0.2127	0.12751 ²¹⁷	—126	9.347 ³	—100	18.772 ⁷	0.557 ³⁵⁴
21.007	0.2154	0.12968 ²¹⁷	—333	9.350 ²	— 85	18.779 ⁰	+ 0.203 ³⁵⁴
22.004	0.2182	0.13185 ²¹⁷	—496	9.352 ¹	— 53	18.779 ⁵	— 0.151 ³⁵³
23.001	0.2209	+0.13402	—586	—9.353	— 10	—18.774	— 0.504

Welt-Zeit	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1931			in 0.00001		in 0.001		
März 23.001	0.2209	+0.13402	—586	—9.353	—10	—18.774	—0.504
23.999	0.2236	0.13618	—585	9.354	+36	18.763	0.857
24.996	0.2264	0.13835	—483	9.354	+78	18.747	1.210
25.993	0.2291	0.14052	—300	9.353	+105	18.725	1.562
26.990	0.2318	0.14270	—69	9.352	+108	18.697	1.913
27.988	0.2345	0.14489	+156	9.350	+87	18.664	2.264
28.985	0.2373	+0.14709	+326	—9.347	+45	—18.625	—2.614
29.982	0.2400	0.14929	+400	9.344	—6	18.581	2.963
30.980	0.2427	0.15150	+360	9.341	—60	18.532	3.311
31.977	0.2455	0.15372	+224	9.337	—97	18.477	3.657
April 1.974	0.2482	0.15595	+26	9.332	—112	18.416	4.003
2.971	0.2509	0.15819	—169	9.327	—101	18.351	4.347
3.969	0.2537	+0.16044	—315	—9.321	—66	—18.280	—4.689
4.966	0.2564	0.16271	—369	9.314	—16	18.204	5.029
5.963	0.2591	0.16499	—320	9.307	+35	18.122	5.368
6.960	0.2618	0.16729	—178	9.299	+77	18.035	5.706
7.958	0.2646	0.16960	+20	9.290	+102	17.942	6.042
8.955	0.2673	0.17193	+228	9.281	+105	17.845	6.375
9.952	0.2700	+0.17428	+406	—9.272	+87	—17.742	—6.707
10.949	0.2728	0.17664	+519	9.262	+54	17.635	7.037
11.947	0.2755	0.17902	+549	9.252	+11	17.523	7.364
12.944	0.2782	0.18143	+495	9.241	—31	17.405	7.688
13.941	0.2810	0.18385	+366	9.230	—68	17.282	8.010
14.939	0.2837	0.18630	+185	9.218	—92	17.154	8.330
15.936	0.2864	+0.18877	—26	—9.206	—101	—17.021	—8.648
16.933	0.2892	0.19125	—237	9.193	—92	16.884	8.963
17.930	0.2919	0.19376	—417	9.181	—66	16.741	9.275
18.928	0.2946	0.19629	—535	9.168	—26	16.594	9.584
19.925	0.2973	0.19884	—567	9.155	+19	16.442	9.890
20.922	0.3001	0.20142	—503	9.141	+63	16.285	10.192
21.919	0.3028	+0.20403	—351	—9.127	+96	—16.124	—10.492
22.917	0.3055	0.20666	—138	9.112	+108	15.959	10.789
23.914	0.3083	0.20932	+90	9.097	+99	15.789	11.083
24.911	0.3110	0.21200	+279	9.082	+65	15.615	11.373
25.909	0.3137	0.21471	+387	9.067	+17	15.435	11.660
26.906	0.3165	0.21745	+384	9.051	—38	15.252	11.943
27.903	0.3192	+0.22021	+275	—9.036	—83	—15.065	—12.223
28.900	0.3219	0.22300	+87	9.020	—109	14.873	12.499
29.898	0.3246	0.22581	—123	9.005	—109	14.677	12.771
30.895	0.3274	0.22866	—302	8.989	—83	14.476	13.040
Mai 1.892	0.3301	0.23153	—400	8.973	—39	14.272	13.304
2.889	0.3328	+0.23443	—389	—8.956	+14	—14.064	—13.564

Welt-Zeit	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>	
1931			in 0.00001		in 0.001			
Mai	2.889	0.3328	+0.23443 ²⁹³	—389	—8.956 ¹⁶	+14	—14.064 ²¹²	—13.564 ²⁵⁷
	3.887	0.3356	0.23736 ²⁹⁵	—278	8.940 ¹⁷	+62	13.852 ²¹⁵	13.821 ²⁵³
	4.884	0.3383	0.24031 ²⁹⁸	—91	8.923 ¹⁶	+96	13.637 ²²⁰	14.074 ²⁴⁹
	5.881	0.3410	0.24329 ³⁰²	+128	8.907 ¹⁷	+107	13.417 ²²⁴	14.323 ²⁴⁴
	6.879	0.3438	0.24631 ³⁰⁴	+331	8.890 ¹⁶	+97	13.193 ²²⁷	14.567 ²⁴⁰
	7.876	0.3465	0.24935 ³⁰⁷	+480	8.874 ¹⁶	+67	12.966 ²³⁰	14.807 ²³⁶
	8.873	0.3492	+0.25242 ³⁰⁹	+549	—8.858 ¹⁷	+28	—12.736 ²³⁴	—15.043 ²³¹
	9.870	0.3520	0.25551 ³¹¹	+528	8.841 ¹⁶	—16	12.502 ²³⁷	15.274 ²²⁸
	10.868	0.3547	0.25862 ³¹⁴	+428	8.825 ¹⁷	—56	12.265 ²⁴¹	15.502 ²²²
	11.865	0.3574	0.26176 ³¹⁷	+263	8.808 ¹⁶	—84	12.024 ²⁴⁵	15.724 ²¹⁸
	12.862	0.3601	0.26493 ³²⁰	+59	8.792 ¹⁵	—100	11.779 ²⁴⁷	15.942 ²¹⁴
	13.859	0.3629	0.26813 ³²³	—154	8.777 ¹⁵	—98	11.532 ²⁵⁰	16.156 ²⁰⁹
	14.857	0.3656	+0.27136 ³²⁵	—348	—8.762 ¹⁵	—78	—11.282 ²⁵³	—16.365 ²⁰³
	15.854	0.3683	0.27461 ³²⁷	—490	8.747 ¹⁵	—43	11.029 ²⁵⁶	16.568 ¹⁹⁹
	16.851	0.3711	0.27788 ³³¹	—551	8.732 ¹⁵	+1	10.773 ²⁶⁰	16.767 ¹⁹⁵
	17.848	0.3738	0.28119 ³³⁴	—521	8.717 ¹⁵	+47	10.513 ²⁶³	16.962 ¹⁸⁹
	18.846	0.3765	0.28453 ³³⁵	—397	8.702 ¹⁴	+85	10.250 ²⁶⁵	17.151 ¹⁸⁵
	19.843	0.3793	0.28788 ³³⁷	—202	8.688 ¹⁴	+107	9.985 ²⁶⁷	17.336 ¹⁸⁰
	20.840	0.3820	+0.29125 ³⁴⁰	+28	—8.674 ¹⁴	+107	—9.718 ²⁷¹	—17.516 ¹⁷⁵
	21.838	0.3847	0.29465 ³⁴²	+242	8.660 ¹⁴	+81	9.447 ²⁷³	17.691 ¹⁷⁰
	22.835	0.3874	0.29807 ³⁴⁵	+385	8.646 ¹⁴	+37	9.174 ²⁷⁶	17.861 ¹⁶⁵
	23.832	0.3902	0.30152 ³⁴⁷	+423	8.632 ¹³	—17	8.898 ²⁷⁷	18.026 ¹⁵⁹
	24.829	0.3929	0.30499 ³⁴⁹	+350	8.619 ¹³	—67	8.621 ²⁸⁰	18.185 ¹⁵⁵
	25.827	0.3956	0.30848 ³⁵¹	+180	8.606 ¹³	—102	8.341 ²⁸²	18.340 ¹⁵⁰
	26.824	0.3984	+0.31199 ³⁵³	—37	—8.593 ¹²	—113	—8.059 ²⁸⁵	—18.490 ¹⁴⁴
	27.821	0.4011	0.31552 ³⁵⁶	—244	8.581 ¹¹	—97	7.774 ²⁸⁶	18.634 ¹³⁹
	28.818	0.4038	0.31908 ³⁵⁸	—387	8.570 ¹¹	—58	7.488 ²⁸⁸	18.773 ¹³³
	29.816	0.4066	0.32266 ³⁵⁹	—430	8.559 ¹¹	—7	7.200 ²⁹¹	18.906 ¹²⁸
	30.813	0.4093	0.32625 ³⁶¹	—360	8.548 ¹⁰	+44	6.909 ²⁹³	19.034 ¹²³
	31.810	0.4120	0.32986 ³⁶²	—198	8.538 ¹⁰	+85	6.616 ²⁹⁴	19.157 ¹¹⁸
Juni	1.808	0.4148	+0.33348 ³⁶⁴	+16	—8.528 ⁹	+105	—6.322 ²⁹⁵	—19.275 ¹¹²
	2.805	0.4175	0.33712 ³⁶⁶	+235	8.519 ⁸	+102	6.027 ²⁹⁷	19.387 ¹⁰⁷
	3.802	0.4202	0.34078 ³⁶⁷	+414	8.511 ⁹	+81	5.730 ²⁹⁹	19.494 ¹⁰¹
	4.799	0.4229	0.34445 ³⁶⁹	+520	8.502 ⁸	+44	5.431 ³⁰⁰	19.595 ⁹⁶
	5.797	0.4257	0.34814 ³⁷⁰	+538	8.494 ⁸	+1	5.131 ³⁰²	19.691 ⁹⁰
	6.794	0.4284	0.35184 ³⁷¹	+468	8.486 ⁷	—42	4.829 ³⁰³	19.781 ⁸⁵
	7.791	0.4311	+0.35555 ³⁷²	+325	—8.479 ⁶	—76	—4.526 ³⁰⁴	—19.866 ⁸⁰
	8.788	0.4339	0.35927 ³⁷⁴	+132	8.473 ⁵	—96	4.222 ³⁰⁵	19.946 ⁷⁴
	9.786	0.4366	0.36301 ³⁷⁵	—82	8.468 ⁶	—100	3.917 ³⁰⁷	20.020 ⁶⁹
	10.783	0.4393	0.36676 ³⁷⁶	—286	8.462 ⁵	—86	3.610 ³⁰⁷	20.089 ⁶²
	11.780	0.4421	0.37052 ³⁷⁷	—448	8.457 ⁵	—58	3.303 ³⁰⁸	20.151 ⁵⁷
	12.777	0.4448	+0.37429	—544	—8.452	—16	—2.995	—20.208

Reduktionsgrößen 1931

für 12^h Sternzeit Greenwich

Welt-Zeit	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1931			in 0.0001		in 0.001		
Juni 12.777	0.4448	+0.37429	—544	—8.452	— 16	—2.995	—20.208
13.775	0.4475	0.37806 ³⁷⁷	—548	8.448	+ 30	2.687 ³⁰⁸	20.260 ⁵²
14.772	0.4502	0.38184 ³⁷⁸	—457	8.445	+ 72	2.378 ³⁰⁹	20.306 ⁴⁶
15.769	0.4530	0.38563 ³⁷⁹	—281	8.443	+ 101	2.068 ³¹⁰	20.346 ⁴⁰
16.767	0.4557	0.38942 ³⁸⁰	— 54	8.441	+ 109	1.758 ³¹¹	20.381 ³⁵
17.764	0.4584	0.39322 ³⁸⁰	+177	8.440	+ 94	1.447 ³¹²	20.410 ²⁹
18.761	0.4612	+0.39702 ³⁸¹	+356	—8.439	+ 56	—1.135 ³¹¹	—20.433 ¹⁸
19.758	0.4639	0.40083 ³⁸⁰	+446	8.439	+ 5	0.824 ³¹²	20.451 ¹²
20.756	0.4666	0.40463 ³⁸¹	+420	8.439	— 48	0.512 ³¹²	20.463 ⁶
21.753	0.4694	0.40844 ³⁸⁰	+288	8.440	— 90	—0.200 ³¹²	20.469 ¹
22.750	0.4721	0.41224 ³⁸¹	+ 81	8.441	—111	+0.112 ³¹²	20.470 ⁵
23.747	0.4748	0.41605 ³⁸⁰	—142	8.443	—106	0.424 ³¹¹	20.465 ¹¹
24.745	0.4776	+0.41985 ³⁸⁰	—323	—8.446	— 77	+0.735 ³¹¹	—20.454 ¹⁵
25.742	0.4803	0.42365 ³⁸⁰	—419	8.449	— 29	1.046 ³¹¹	20.439 ²²
26.739	0.4830	0.42745 ³⁷⁹	—399	8.453	+ 24	1.357 ³¹¹	20.417 ²⁸
27.737	0.4857	0.43124 ³⁷⁹	—278	8.458	+ 71	1.668 ³¹⁰	20.389 ³²
28.734	0.4885	0.43503 ³⁷⁹	— 81	8.463	+ 101	1.978 ³¹⁰	20.357 ³⁹
29.731	0.4912	0.43882 ³⁷⁸	+140	8.468	+ 107	2.288 ³¹⁰	20.318 ⁴⁴
Juli 30.728	0.4939	+0.44260 ³⁷⁷	+341	—8.474	+ 93	+2.598 ³⁰⁸	—20.274 ⁵⁰
1.726	0.4967	0.44637 ³⁷⁶	+480	8.481	+ 60	2.906 ³⁰⁷	20.224 ⁵⁵
2.723	0.4994	0.45013 ³⁷⁵	+533	8.488	+ 17	3.213 ³⁰⁷	20.169 ⁶²
3.720	0.5022	0.45388 ³⁷⁴	+495	8.496	— 26	3.520 ³⁰⁵	20.107 ⁶⁶
4.717	0.5049	0.45762 ³⁷³	+378	8.504	— 65	3.825 ³⁰⁵	20.041 ⁷²
5.715	0.5076	0.46135 ³⁷²	+201	8.513	— 92	4.130 ³⁰³	19.969 ⁷⁷
6.712	0.5103	+0.46507 ³⁷¹	— 10	—8.522	—101	+4.433 ³⁰²	—19.892 ⁸³
7.709	0.5130	0.46878 ³⁷⁰	—222	8.532	— 93	4.735 ³⁰¹	19.809 ⁸⁸
8.707	0.5158	0.47248 ³⁶⁸	—406	8.542	— 70	5.036 ³⁰⁰	19.721 ⁹⁴
9.704	0.5185	0.47616 ³⁶⁷	—531	8.552	— 32	5.336 ²⁹⁸	19.627 ¹⁰⁰
10.701	0.5212	0.47983 ³⁶⁵	—572	8.563	+ 13	5.634 ²⁹⁶	19.527 ¹⁰⁵
11.698	0.5240	0.48348 ³⁶⁴	—520	8.575	+ 57	5.930 ²⁹⁵	19.422 ¹¹⁰
12.696	0.5267	+0.48712 ³⁶¹	—376	—8.588	+ 92	+6.225 ²⁹³	—19.312 ¹¹⁵
13.693	0.5294	0.49073 ³⁶⁰	—164	8.601	+ 109	6.518 ²⁹²	19.197 ¹²¹
14.690	0.5322	0.49433 ³⁵⁸	+ 73	8.614	+ 102	6.810 ²⁹⁰	19.076 ¹²⁵
15.687	0.5349	0.49791 ³⁵⁶	+285	8.627	+ 73	7.100 ²⁸⁷	18.951 ¹³¹
16.685	0.5376	0.50147 ³⁵⁵	+424	8.641	+ 27	7.387 ²⁸⁶	18.820 ¹³⁶
17.682	0.5404	0.50502 ³⁵³	+451	8.655	— 27	7.673 ²⁸³	18.684 ¹⁴²
18.679	0.5431	+0.50855 ³⁵⁰	+366	—8.670	— 76	+7.956 ²⁸¹	—18.542 ¹⁴⁷
19.676	0.5458	0.51205 ³⁴⁸	+191	8.686	—106	8.237 ²⁷⁹	18.395 ¹⁵²
20.674	0.5485	0.51553 ³⁴⁶	— 28	8.701	—112	8.516 ²⁷⁸	18.243 ¹⁵⁶
21.671	0.5513	0.51899 ³⁴⁴	—231	8.717	— 90	8.794 ²⁷⁴	18.087 ¹⁶²
22.668	0.5540	0.52243 ³⁴²	—365	8.732	— 49	9.068 ²⁷²	17.925 ¹⁶⁶
23.666	0.5567	+0.52585	—396	—8.748	+ 5	+9.340	—17.759

Welt-Zeit	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>	
1931			in 0.0001		in 0.001			
Juli	23.666	0.5567 ^a	+0.52585 ³⁴⁰	—396	—8.748 ¹⁷	+ 5	+ 9.340 ²⁶⁹	—17.759 ¹⁷²
	24.663	0.5595	0.52925 ³³⁷	—316	8.765 ¹⁷	+ 55	9.609 ²⁶⁷	17.587 ¹⁷⁶
	25.660	0.5622	0.53262 ³³⁵	—147	8.782 ¹⁷	+ 91	9.876 ²⁶⁵	17.411 ¹⁸²
	26.657	0.5649	0.53597 ³³³	+ 66	8.799 ¹⁸	+ 109	10.141 ²⁶¹	17.229 ¹⁸⁶
	27.655	0.5677	0.53930 ³³⁰	+ 277	8.817 ¹⁸	+ 101	10.402 ²⁵⁹	17.043 ¹⁹¹
	28.652	0.5704	0.54260 ³²⁷	+ 440	8.835 ¹⁸	+ 74	10.661 ²⁵⁶	16.852 ¹⁹⁵
	29.649	0.5731	+0.54587 ³²⁵	+ 526	—8.853 ¹⁸	+ 35	+ 10.917 ²⁵²	—16.657 ²⁰¹
	30.646	0.5758	0.54912 ³²²	+ 522	8.871 ¹⁸	— 10	11.169 ²⁵⁰	16.456 ²⁰⁵
	31.644	0.5786	0.55234 ³²⁰	+ 431	8.889 ¹⁸	— 52	11.419 ²⁴⁷	16.251 ²¹⁰
Aug.	1.641	0.5813	0.55554 ³¹⁷	+ 274	8.907 ¹⁸	— 84	11.666 ²⁴³	16.041 ²¹⁴
	2.638	0.5840	0.55871 ³¹⁵	+ 71	8.925 ¹⁹	— 99	11.909 ²⁴⁰	15.827 ²¹⁸
	3.636	0.5868	0.56186 ³¹²	—144	8.944 ¹⁹	— 98	12.149 ²³⁷	15.609 ²²³
	4.633	0.5895	+0.56498 ³⁰⁹	—343	—8.963 ¹⁹	— 81	+ 12.386 ²³⁴	—15.386 ²²⁷
	5.630	0.5922	0.56807 ³⁰⁷	—497	8.982 ¹⁹	— 49	12.620 ²³⁰	15.159 ²³²
	6.627	0.5950	0.57114 ³⁰⁴	—578	9.001 ¹⁹	— 6	12.850 ²²⁷	14.927 ²³⁶
	7.625	0.5977	0.57418 ³⁰¹	—568	9.020 ¹⁹	+ 40	13.077 ²²³	14.691 ²⁴⁰
	8.622	0.6004	0.57719 ²⁹⁸	—464	9.039 ¹⁹	+ 80	13.300 ²²⁰	14.451 ²⁴⁴
	9.619	0.6032	0.58017 ²⁹⁶	—282	9.058 ¹⁸	+ 104	13.520 ²¹⁵	14.207 ²⁴⁷
	10.616	0.6059	+0.58313 ²⁹³	— 53	—9.076 ¹⁹	+ 107	+ 13.735 ²¹²	—13.960 ²⁵²
	11.614	0.6086	0.58606 ²⁹⁰	+ 174	9.095 ¹⁹	+ 85	13.947 ²⁰⁸	13.708 ²⁵⁶
	12.611	0.6113	0.58896 ²⁸⁸	+ 345	9.114 ¹⁹	+ 46	14.155 ²⁰⁴	13.452 ²⁶⁰
	13.608	0.6141	0.59184 ²⁸⁵	+ 424	9.133 ¹⁹	— 5	14.359 ²⁰⁰	13.192 ²⁶⁴
	14.606	0.6168	0.59469 ²⁸²	+ 393	9.152 ¹⁹	— 57	14.559 ¹⁹⁷	12.928 ²⁶⁷
	15.603	0.6195	0.59751 ²⁸⁰	+ 260	9.171 ¹⁹	— 97	14.756 ¹⁹³	12.661 ²⁷⁰
	16.600	0.6223	+0.60031 ²⁷⁷	+ 60	—9.190 ¹⁸	—113	+ 14.949 ¹⁸⁸	—12.391 ²⁷⁴
	17.597	0.6250	0.60308 ²⁷⁵	—146	9.208 ¹⁸	—102	15.137 ¹⁸³	12.117 ²⁷⁸
	18.595	0.6277	0.60583 ²⁷²	—307	9.226 ¹⁸	— 67	15.320 ¹⁸⁰	11.839 ²⁸²
	19.592	0.6305	0.60855 ²⁷⁰	—374	9.244 ¹⁸	— 19	15.500 ¹⁷⁶	11.557 ²⁸⁵
	20.589	0.6332	0.61125 ²⁶⁷	—333	9.262 ¹⁷	+ 36	15.676 ¹⁷¹	11.272 ²⁸⁸
	21.586	0.6359	0.61392 ²⁶⁴	—197	9.279 ¹⁷	+ 80	15.847 ¹⁶⁷	10.984 ²⁹¹
	22.584	0.6386	+0.61656 ²⁶²	+ 7	—9.296 ¹⁷	+ 106	+ 16.014 ¹⁶²	—10.693 ²⁹⁵
	23.581	0.6414	0.61918 ²⁶⁰	+ 226	9.313 ¹⁶	+ 108	16.176 ¹⁵⁸	10.398 ²⁹⁷
	24.578	0.6441	0.62178 ²⁵⁷	+ 409	9.329 ¹⁷	+ 88	16.334 ¹⁵³	10.101 ³⁰⁰
	25.575	0.6468	0.62435 ²⁵⁵	+ 528	9.346 ¹⁷	+ 51	16.487 ¹⁴⁹	9.801 ³⁰³
	26.573	0.6496	0.62690 ²⁵³	+ 554	9.363 ¹⁶	+ 7	16.636 ¹⁴⁴	9.498 ³⁰⁶
	27.570	0.6523	0.62943 ²⁵⁰	+ 492	9.379 ¹⁶	— 36	16.780 ¹⁴⁰	9.192 ³⁰⁹
	28.567	0.6550	+0.63193 ²⁴⁸	+ 353	—9.395 ¹⁵	— 74	+ 16.920 ¹³⁴	— 8.883 ³¹²
	29.565	0.6578	0.63441 ²⁴⁷	+ 162	9.410 ¹⁵	— 96	17.054 ¹²⁹	8.571 ³¹⁴
	30.562	0.6605	0.63688 ²⁴⁴	— 53	9.425 ¹⁴	—100	17.183 ¹²⁵	8.257 ³¹⁷
	31.559	0.6632	0.63932 ²⁴²	—261	9.439 ¹³	— 88	17.308 ¹²⁰	7.940 ³¹⁸
Sept.	1.556	0.6660	0.64174 ²⁴⁰	—436	9.452 ¹³	— 61	17.428 ¹¹⁶	7.622 ³²¹
	2.554	0.6687	+0.64414	—549	—9.465	— 20	+ 17.544	— 7.301

Reduktionsgrößen 1931

für 12^h Sternzeit Greenwich

Welt-Zeit	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1931			in 0.00001		in 0.001		
Sept.	2.554	0.6687 +0.64414 ₂₃₈	—549	—9.465 ₁₃	—20	+17.544 ₁₁₀	—7.301 ₃₂₄
	3.551	0.6714 0.64652 ₂₃₆	—579	9.478 ₁₂	+24	17.654 ₁₀₆	6.977 ₃₂₅
	4.548	0.6741 0.64888 ₂₃₄	—515	9.490 ₁₂	+66	17.760 ₁₀₀	6.652 ₃₂₇
	5.545	0.6769 0.65122 ₂₃₃	—370	9.502 ₁₁	+97	17.860 ₉₆	6.325 ₃₃₀
	6.543	0.6796 0.65355 ₂₃₁	—165	9.513 ₁₁	+107	17.956 ₉₀	5.995 ₃₃₂
	7.540	0.6823 0.65586 ₂₃₀	+58	9.524 ₁₀	+96	18.046 ₈₅	5.663 ₃₃₃
	8.537	0.6851 +0.65816 ₂₂₈	+250	—9.534 ₁₀	+64	+18.131 ₈₀	—5.330 ₃₃₅
	9.535	0.6878 0.66044 ₂₂₇	+366	9.544 ₁₀	+14	18.211 ₇₅	4.995 ₃₃₇
	10.532	0.6905 0.66271 ₂₂₇	+378	9.554 ₉	—39	18.286 ₇₀	4.658 ₃₃₈
	11.529	0.6933 0.66498 ₂₂₅	+284	9.563 ₈	—83	18.356 ₆₅	4.320 ₃₃₉
	12.526	0.6960 0.66723 ₂₂₄	+111	9.571 ₇	—109	18.421 ₅₉	3.981 ₃₄₁
	13.524	0.6987 0.66947 ₂₂₃	—93	9.578 ₇	—110	18.480 ₅₄	3.640 ₃₄₂
	14.521	0.7014 +0.67170 ₂₂₁	—271	—9.585 ₆	—83	+18.534 ₄₉	—3.298 ₃₄₃
	15.518	0.7042 0.67391 ₂₂₀	—369	9.591 ₆	—39	18.583 ₄₃	2.955 ₃₄₄
	16.515	0.7069 0.67611 ₂₂₀	—364	9.597 ₆	+15	18.626 ₃₉	2.611 ₃₄₆
	17.513	0.7096 0.67831 ₂₂₀	—252	9.603 ₅	+65	18.665 ₃₂	2.265 ₃₄₆
	18.510	0.7124 0.68051 ₂₁₉	—63	9.608 ₄	+98	18.697 ₂₇	1.919 ₃₄₇
	19.507	0.7151 0.68270 ₂₁₉	+163	9.612 ₃	+108	18.724 ₂₁	1.572 ₃₄₇
	20.504	0.7178 +0.68489 ₂₁₈	+370	—9.615 ₂	+97	+18.745 ₁₇	—1.225 ₃₄₈
	21.502	0.7206 0.68707 ₂₁₈	+520	9.617 ₂	+65	18.762 ₁₁	0.877 ₃₄₈
	22.499	0.7233 0.68923 ₂₁₈	+580	9.619 ₁	+23	18.773 ₆	0.529 ₃₄₉
	23.496	0.7260 0.69143 ₂₁₈	+552	9.620 ₁	—22	18.779 ₁	—0.180 ₃₄₉
	24.494	0.7287 0.69361 ₂₁₇	+436	9.621 ₀	—61	18.778 ₅	+0.169 ₃₄₉
	25.491	0.7315 0.69578 ₂₁₈	+259	9.621 ₁	—89	18.773 ₁₁	0.518 ₃₄₉
	26.488	0.7342 +0.69796 ₂₁₈	+48	—9.620 ₁	—101	+18.762 ₁₆	+0.867 ₃₄₉
	27.485	0.7369 0.70014 ₂₁₈	—165	9.619 ₂	—94	18.746 ₂₂	1.216 ₃₄₉
	28.483	0.7397 0.70232 ₂₁₉	—357	9.617 ₂	—72	18.724 ₂₇	1.565 ₃₄₉
	29.480	0.7424 0.70451 ₂₁₉	—493	9.615 ₃	—38	18.697 ₃₂	1.914 ₃₄₈
	30.477	0.7451 0.70670 ₂₂₀	—556	9.612 ₄	+7	18.665 ₃₉	2.262 ₃₄₈
Okt.	1.474	0.7479 0.70890 ₂₂₁	—532	9.608 ₄	+50	18.626 ₄₃	2.610 ₃₄₇
	2.472	0.7506 +0.71111 ₂₂₂	—419	—9.604 ₅	+86	+18.583 ₅₀	+2.957 ₃₄₇
	3.469	0.7533 0.71333 ₂₂₃	—241	9.599 ₅	+106	18.533 ₅₅	3.304 ₃₄₅
	4.466	0.7561 0.71556 ₂₂₃	—29	9.594 ₆	+104	18.478 ₆₀	3.649 ₃₄₅
	5.464	0.7588 0.71779 ₂₂₅	+172	9.588 ₇	+79	18.418 ₆₅	3.994 ₃₄₄
	6.461	0.7615 0.72004 ₂₂₇	+313	9.581 ₇	+35	18.353 ₇₁	4.338 ₃₄₃
	7.458	0.7642 0.72231 ₂₂₈	+358	9.574 ₈	—17	18.282 ₇₇	4.681 ₃₄₂
	8.455	0.7670 +0.72459 ₂₂₉	+299	—9.566 ₈	—67	+18.205 ₈₂	+5.023 ₃₄₀
	9.453	0.7697 0.72688 ₂₃₀	+147	9.558 ₉	—102	18.123 ₈₇	5.363 ₃₃₉
	10.450	0.7724 0.72918 ₂₃₂	—52	9.549 ₁₀	—113	18.036 ₉₂	5.702 ₃₃₈
	11.447	0.7752 0.73150 ₂₃₃	—249	9.539 ₁₀	—97	17.944 ₉₉	6.040 ₃₃₆
	12.444	0.7779 0.73383 ₂₃₆	—379	9.529 ₁₁	—58	17.845 ₁₀₄	6.376 ₃₃₄
	13.442	0.7806 +0.73619	—413	—9.518	—6	+17.741	+6.710

Welt-Zeit	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>					
1931												
Okt.	13.442	0.7806	+0.73619	in 0.0001	—413	—9.518	in 0.001	—6	+17.741	108	+6.710	332
	14.439	0.7834	0.73856 ²³⁷	—331	9.507 ¹¹	+47	17.633 ¹⁰⁸				7.042	332
	15.436	0.7861	0.74096 ²⁴⁰	—160	9.495 ¹²	+87	17.519 ¹¹⁴				7.373	331
	16.434	0.7888	0.74338 ²⁴²	+68	9.483 ¹²	+107	17.399 ¹²⁰				7.702	329
	17.431	0.7916	0.74581 ²⁴³	+299	9.470 ¹³	+104	17.275 ¹²⁴				8.028	326
	18.428	0.7943	0.74827 ²⁴⁶	+484	9.457 ¹³	+80	17.145 ¹³⁰				8.352	324
			248				135					322
	19.425	0.7970	+0.75075 ²⁵⁰	+585	—9.444 ¹⁴	+40	+17.010 ¹⁴¹				+8.674	320
	20.423	0.7997	0.75325 ²⁵²	+593	9.430 ¹⁵	—6	16.869 ¹⁴⁵				8.994	317
	21.420	0.8025	0.75577 ²⁵⁵	+508	9.415 ¹⁵	—49	16.724 ¹⁵⁰				9.311	317
	22.417	0.8052	0.75832 ²⁵⁸	+351	9.400 ¹⁶	—81	16.574 ¹⁵⁵				9.625	314
	23.414	0.8079	0.76090 ²⁶¹	+148	9.384 ¹⁶	—99	16.419 ¹⁶¹				9.936	311
	24.412	0.8107	0.76351 ²⁶³	—67	9.368 ¹⁶	—99	16.258 ¹⁶⁵				10.245	309
												306
	25.409	0.8134	+0.76614 ²⁶⁶	—268	—9.352 ¹⁶	—82	+16.093 ¹⁷¹				+10.551	303
	26.406	0.8161	0.76880 ²⁶⁹	—127	9.336 ¹⁷	—51	15.922 ¹⁷⁵				10.854	300
	27.403	0.8189	0.77149 ²⁷²	—517	9.319 ¹⁷	—9	15.747 ¹⁸⁰				11.154	296
	28.401	0.8216	0.77421 ²⁷⁴	—521	9.302 ¹⁷	+34	15.567 ¹⁸⁵				11.450	293
	29.398	0.8243	0.77695 ²⁷⁷	—445	9.285 ¹⁸	+74	15.382 ¹⁹⁰				11.743	290
	30.395	0.8270	0.77972 ²⁸⁰	—290	9.267 ¹⁸	+99	15.192 ¹⁹⁴				12.033	287
	31.392	0.8298	+0.78252 ²⁸³	—89	—9.249 ¹⁸	+107	+14.998 ²⁰⁰				+12.320	283
Nov.	1.389	0.8325	0.78535 ²⁸⁶	+117	9.231 ¹⁸	+92	14.798 ²⁰⁴				12.603	283
	2.387	0.8352	0.78821 ²⁸⁹	+279	9.213 ¹³	+55	14.594 ²⁰⁸				12.882	279
	3.384	0.8380	0.79110 ²⁹²	+356	9.195 ¹⁹	+5	14.386 ²¹³				13.157	275
	4.382	0.8407	0.79402 ²⁹⁵	+329	9.176 ¹³	—47	14.173 ²¹⁷				13.428	271
	5.379	0.8434	0.79697 ²⁹⁸	+203	9.158 ¹⁹	—90	13.956 ²²¹				13.696	268
												264
	6.376	0.8462	+0.79995 ³⁰²	+6	—9.139 ¹⁹	—111	+13.735 ²²⁶				+13.960	259
	7.373	0.8489	0.80297 ³⁰⁵	—206	9.120 ¹⁹	—106	13.509 ²³⁰				14.219	255
	8.371	0.8516	0.80602 ³⁰⁸	—376	9.101 ¹⁹	—77	13.279 ²³⁴				14.474	251
	9.368	0.8544	0.80910 ³¹¹	—453	9.082 ¹⁸	—29	13.045 ²³⁸				14.725	247
	10.365	0.8571	0.81221 ³¹⁵	—419	9.064 ¹⁹	+26	12.807 ²⁴³				14.972	242
	11.363	0.8598	0.81536 ³¹⁷	—276	9.045 ¹⁹	+72	12.564 ²⁴⁶				15.214	242
												238
	12.360	0.8625	+0.81853 ³²¹	—56	—9.026 ¹⁸	+102	+12.318 ²⁵⁰				+15.452	232
	13.357	0.8653	0.82174 ³²⁴	+190	9.008 ¹⁸	+109	12.068 ²⁵⁴				15.684	228
	14.354	0.8680	0.82498 ³²⁷	+406	8.990 ¹⁹	+93	11.814 ²⁵⁷				15.912	223
	15.352	0.8707	0.82825 ³³⁰	+552	8.971 ¹⁸	+57	11.557 ²⁶²				16.135	219
	16.349	0.8735	0.83155 ³³³	+602	8.953 ¹⁸	+12	11.295 ²⁶⁶				16.354	213
	17.346	0.8762	0.83488 ³³⁶	+558	8.935 ¹⁸	—33	11.029 ²⁶⁸				16.567	209
	18.343	0.8789	+0.83824 ³³⁹	+427	—8.917 ¹⁸	—71	+10.761 ²⁷²				+16.776	203
	19.341	0.8817	0.84163 ³⁴²	+238	8.899 ¹⁷	—95	10.489 ²⁷⁶				16.979	199
	20.338	0.8844	0.84505 ³⁴⁵	+24	8.882 ¹⁸	—101	10.213 ²⁷⁷				17.178	193
	21.335	0.8871	0.84850 ³⁴⁷	—186	8.864 ¹⁷	—90	9.936 ²⁸²				17.371	188
	22.333	0.8898	0.85197 ³⁵¹	—361	8.847 ¹⁶	—65	9.654 ²⁸⁶				17.559	182
	23.330	0.8926	+0.85548	—478	—8.831	—26	+9.368				+17.741	

Reduktionsgrößen 1931

für 12^h Sternzeit Greenwich

Welt-Zeit	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1931			in 0.0001		in "		
Nov. 23.330	0.8926	+0.85548 ³⁵³	—478	—8.831 ¹⁶	—26	+9.368 ²⁸⁷	+17.741 ¹⁷⁷
24.327	0.8953	0.85901 ³⁵⁶	—514	8.815 ¹⁶	+18	9.081 ²⁹¹	17.918 ¹⁷¹
25.324	0.8980	0.86257 ³⁵⁹	—461	8.799 ¹⁶	+59	8.790 ²⁹⁴	18.089 ¹⁶⁶
26.322	0.9008	0.86616 ³⁶²	—332	8.783 ¹⁵	+92	8.496 ²⁹⁶	18.255 ¹⁶⁰
27.319	0.9035	0.86978 ³⁶⁴	—144	8.768 ¹⁵	+107	8.200 ²⁹⁹	18.415 ¹⁵⁵
28.316	0.9062	0.87342 ³⁶⁶	+66	8.753 ¹⁵	+100	7.901 ³⁰²	18.570 ¹⁴⁹
29.313	0.9090	+0.87708 ³⁶⁹	+251	—8.738 ¹⁴	+71	+7.599 ³⁰⁴	+18.719 ¹⁴³
30.311	0.9117	0.88077 ³⁷¹	+363	8.724 ¹⁴	+25	7.295 ³⁰⁶	18.862 ¹³⁸
Dez. 1.308	0.9144	0.88448 ³⁷⁴	+375	8.710 ¹³	—28	6.989 ³⁰⁸	19.000 ¹³¹
2.305	0.9172	0.88822 ³⁷⁵	+282	8.697 ¹²	—75	6.681 ³¹¹	19.131 ¹²⁶
3.302	0.9199	0.89197 ³⁷⁸	+100	8.685 ¹¹	—106	6.370 ³¹⁴	19.257 ¹²⁰
4.300	0.9226	0.89575 ³⁸⁰	—119	8.674 ¹¹	—112	6.056 ³¹⁵	19.377 ¹¹³
5.297	0.9253	+0.89955 ³⁸¹	—323	—8.663 ¹¹	—92	+5.741 ³¹⁶	+19.490 ¹⁰⁷
6.294	0.9281	0.90336 ³⁸³	—452	8.652 ¹⁰	—49	5.425 ³¹⁸	19.597 ¹⁰¹
7.292	0.9308	0.90719 ³⁸⁵	—471	8.642 ¹⁰	+4	5.107 ³²¹	19.698 ⁹⁶
8.289	0.9335	0.91104 ³⁸⁷	—374	8.632 ⁹	+56	4.786 ³²²	19.794 ⁹⁰
9.286	0.9363	0.91491 ³⁸⁸	—181	8.623 ⁸	+95	4.464 ³²³	19.884 ⁸²
10.283	0.9390	0.91879 ³⁹⁰	+59	8.615 ⁸	+110	4.141 ³²⁵	19.966 ⁷⁷
11.281	0.9417	+0.92269 ³⁹¹	+298	—8.607 ⁷	+103	+3.816 ³²⁶	+20.043 ⁷⁰
12.278	0.9445	0.92660 ³⁹²	+482	8.600 ⁷	+74	3.490 ³²⁷	20.113 ⁶⁵
13.275	0.9472	0.93052 ³⁹³	+579	8.593 ⁶	+31	3.163 ³²⁸	20.178 ⁵⁸
14.272	0.9499	0.93445 ³⁹⁴	+575	8.587 ⁵	—16	2.835 ³²⁹	20.236 ⁵¹
15.270	0.9526	0.93839 ³⁹⁵	+479	8.582 ⁵	—59	2.506 ³³⁰	20.287 ⁴⁶
16.267	0.9554	0.94234 ³⁹⁶	+310	8.577 ⁴	—87	2.176 ³³¹	20.333 ³⁹
17.264	0.9581	+0.94630 ³⁹⁷	+101	—8.573 ⁴	—102	+1.845 ³³¹	+20.372 ³²
18.262	0.9608	0.95027 ³⁹⁷	—111	8.569 ³	—96	1.514 ³³²	20.404 ²⁶
19.259	0.9636	0.95424 ³⁹⁸	—302	8.566 ²	—75	1.182 ³³³	20.430 ¹⁹
20.256	0.9663	0.95822 ³⁹⁸	—440	8.564 ¹	—41	0.849 ³³²	20.449 ¹³
21.253	0.9690	0.96220 ³⁹⁸	—509	8.563 ¹	+2	0.517 ³³²	20.462 ⁷
22.251	0.9718	0.96618 ³⁹⁸	—490	8.562 ¹	+44	+0.184 ³³³	20.469 ⁰
23.248	0.9745	+0.97016 ³⁹⁸	—387	—8.563 ¹	+81	—0.149 ³³³	+20.469 ⁶
24.245	0.9772	0.97414 ³⁹⁸	—214	8.564 ²	+104	0.482 ³³³	20.463 ¹³
25.242	0.9800	0.97812 ³⁹⁷	—4	8.566 ²	+105	0.815 ³³³	20.450 ¹⁸
26.240	0.9827	0.98209 ³⁹⁷	+200	8.568 ³	+85	1.148 ³³²	20.432 ²⁵
27.237	0.9854	0.98606 ³⁹⁷	+349	8.571 ³	+46	1.480 ³³²	20.407 ³³
28.234	0.9881	0.99003 ³⁹⁶	+410	8.574 ⁴	—6	1.812 ³³¹	20.374 ³⁸
29.231	0.9909	+0.99399 ³⁹⁶	+360	—8.578 ⁵	—56	—2.143 ³³⁰	+20.336 ⁴⁴
30.229	0.9936	0.99795 ³⁹⁵	+210	8.583 ⁵	—96	2.473 ³³⁰	20.292 ⁵²
31.226	0.9963	1.00190 ³⁹⁴	—3	8.588 ⁶	—112	2.803 ³²⁹	20.240 ⁵⁸
32.223	0.9991	+1.00584	—224	—8.594	—103	—3.132	+20.182

Übertragung mittlerer Sternörter

von dem Äquinoktium t_1 auf $t_2 = 1931.0$

t_1	$m^s(t_2-t_1)$	$\log[n^s(t_2-t_1)]$	$\log[n''(t_2-t_1)]$
1755	+9 ^m 0.545	2.371573	3.547665
1790	7 13.095	2.275248	3.451339
1800	6 42.391	2.243290	3.419381
1810	6 11.686	2.208795	3.384886
1825	5 25.624	2.151302	3.327393
1830	+5 10.269	2.130313	3.306404
1835	4 54.914	2.108258	3.284349
1840	4 39.557	2.085023	3.261114
1845	4 24.201	2.060476	3.236567
1850	4 8.844	2.034458	3.210549
1855	+3 53.488	2.006782	3.182873
1860	3 38.130	1.97722	3.153312
1865	3 22.772	1.94550	3.121594
1870	3 7.413	1.91128	3.087375
1875	2 52.054	1.87414	3.050229
1880	+2 36.694	1.83351	3.009606
1885	2 21.334	1.78870	2.96479
1890	2 5.974	1.73872	2.91481
1895	1 50.613	1.68223	2.85832
1900	1 35.251	1.61729	2.79338
1905	+1 19.889	1.54090	2.71699
1910	1 4.527	1.44814	2.62423
1915	0 49.164	1.33003	2.50612
1920	0 33.801	1.16730	2.34339
1925	0 18.437	0.90406	2.08015
1930	+0 3.073	0.12590	1.30199
1935	-0 12.292	0.72795 _n	1.90405 _n

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1931.0$, ist ferner α', δ' der genäherte Sternort für die Zeit

$$\frac{1}{2}(t_1 + t_2),$$

so ist

$$\begin{aligned}\alpha_2 &= \alpha_1 + m^s(t_2-t_1) + [n^s(t_2-t_1)] \sin \alpha' \operatorname{tg} \delta' \\ \delta_2 &= \delta_1 + [n''(t_2-t_1)] \cos \alpha'\end{aligned}$$

Übertragung mittlerer Polsternörter

von dem Äquinoktium t_1 auf $t_2 = 1931.0$

t_1	$90^\circ - (N)$	$(m) + (N) - 90^\circ$	(n)
1755	+67 32.95	+67 35.40	+58 48.87
1790	54 7.47	54 9.06	47 6.96
1800	50 17.29	50 18.66	43 46.42
1810	46 27.09	46 28.26	40 25.89
1825	40 41.75	40 42.65	35 25.11
1830	+38 46.63	+38 47.44	+33 44.85
1835	36 51.50	36 52.23	32 4.60
1840	34 56.37	34 57.02	30 24.34
1845	33 1.23	33 1.82	28 44.09
1850	31 6.08	31 6.61	27 3.83
1855	+29 10.93	+29 11.39	+25 23.59
1860	27 15.78	27 16.18	23 43.34
1865	25 20.62	25 20.97	22 3.09
1870	23 25.45	23 25.75	20 22.84
1875	21 30.28	21 30.54	18 42.60
1880	+19 35.11	+19 35.32	+17 2.36
1885	17 39.92	17 40.09	15 22.11
1890	15 44.73	15 44.87	13 41.88
1895	13 49.54	13 49.65	12 1.64
1900	11 54.34	11 54.42	10 21.41
1905	+ 9 59.14	+ 9 59.20	+ 8 41.17
1910	8 3.93	8 3.97	7 0.94
1915	6 8.72	6 8.74	5 20.71
1920	4 13.50	4 13.51	3 40.49
1925	2 18.27	2 18.28	2 0.26
1930	+ 0 23.04	+ 0 23.05	+ 0 20.04
1935	- 1 32.19	- 1 32.18	- 1 20.18

Sind a_1, δ_1 die Koordinaten für t_1 und a_2, δ_2 jene für $t_2 = 1931.0$, so hat man zur Reduktion von dem Äquinoktium t_1 auf t_2 :

$$a_1 = a_1 + [90^\circ - (N)]$$

$$p_1 = \left(\tan \delta_1 + \cos a_1 \tan \frac{1}{2}(n) \right) \sin(n)$$

$$\tan \Delta a_1 = \frac{p_1 \sin a_1}{1 - p_1 \cos a_1}$$

$$a_2 = a_1 + [(m) + (N) - 90^\circ] + \Delta a_1$$

$$\tan \frac{1}{2}(\delta_2 - \delta_1) =$$

$$\cos \left(a_1 + \frac{1}{2} \Delta a_1 \right) \sec \frac{1}{2} \Delta a_1 \tan \frac{1}{2}(n)$$

zur Reduktion von dem Äquinoktium t_2 auf t_1 :

$$a_2 = a_2 - [(m) + (N) - 90^\circ]$$

$$p_2 = - \left(\tan \delta_2 - \cos a_2 \tan \frac{1}{2}(n) \right) \sin(n)$$

$$\tan \Delta a_2 = \frac{p_2 \sin a_2}{1 - p_2 \cos a_2}$$

$$a_1 = a_2 - [90^\circ - (N)] + \Delta a_2$$

$$\tan \frac{1}{2}(\delta_1 - \delta_2) =$$

$$- \cos \left(a_2 + \frac{1}{2} \Delta a_2 \right) \sec \frac{1}{2} \Delta a_2 \tan \frac{1}{2}(n)$$

Reduktion scheinbarer
Rektaszensions- und Deklinations-Differenzen auf
mittlere für den Jahresanfang

Sind $\Delta\alpha$ und $\Delta\delta$ die gemessenen, scheinbaren Koordinatendifferenzen im Sinne Objekt minus Stern, $d\Delta\alpha$ und $d\Delta\delta$ die an ihnen anzubringenden Korrekturen, um Koordinatendifferenzen zu erhalten, die sich auf das mittlere Äquinoktium des Jahresanfangs beziehen, so wird

$$\begin{aligned}d\Delta\alpha &= (d\Delta\alpha)_1 + (d\Delta\alpha)_2 \\d\Delta\delta &= (d\Delta\delta)_1 + (d\Delta\delta)_2,\end{aligned}$$

wobei

$$\begin{aligned}(d\Delta\alpha)_1 &= -j \cos(G + \alpha) \frac{\operatorname{tg} \delta}{15} \Delta\alpha^m - j \sin(G + \alpha) \frac{\sec^2 \delta}{225} \Delta\delta' \\(d\Delta\alpha)_2 &= -k \cos(H + \alpha) \frac{\sec \delta}{15} \Delta\alpha^m - k \sin(H + \alpha) \frac{\operatorname{tg} \delta \sec \delta}{225} \Delta\delta' \\(d\Delta\delta)_1 &= j \sin(G + \alpha) \Delta\alpha^m \\(d\Delta\delta)_2 &= k \sin(H + \alpha) \sin \delta \Delta\alpha^m - k \cos(H + \alpha) \frac{\cos \delta}{15} \Delta\delta' \\&\quad + [0.0003 i \sin \delta \Delta\delta']\end{aligned}$$

Hierin bezeichnen $(d\Delta\alpha)_1$ und $(d\Delta\delta)_1$ den Einfluß der Präzession und Nutation $(d\Delta\alpha)_2$ und $(d\Delta\delta)_2$ den Einfluß der Aberration.

Die Größen G , H , j , k , i sind auf S. 238*—255* zu finden. Die Faktoren $\frac{1}{15} \operatorname{tg} \delta$, $\frac{1}{225} \sec^2 \delta$, $\frac{1}{15} \sec \delta$, $\frac{1}{225} \operatorname{tg} \delta \sec \delta$, $\sin \delta$, $\frac{1}{15} \cos \delta$ entnehme man der Zusammenstellung auf S. 268*. Die numerischen Werte der Funktionen sinus und cosinus sind auf S. 269* enthalten. $\Delta\alpha^m$ bedeutet die in Zeitminuten ausgedrückte scheinbare Rektaszensionsdifferenz, $\Delta\delta'$ ist die in Bogenminuten ausgedrückte scheinbare Deklinationsdifferenz. Die Größen $d\Delta\alpha$ und $d\Delta\delta$ ergeben sich in Zeit- bzw. Bogensekunden. Das in eckige Klammern gesetzte Glied $0.0003 i \sin \delta \Delta\delta'$ in der Formel für $(d\Delta\delta)_2$ beträgt für $\Delta\delta' = 10'$ im Maximum $0''.02$ und kann daher in den meisten Fällen unberücksichtigt bleiben.

δ	$\frac{1}{15} \operatorname{tg} \delta$	$\frac{1}{225} \sec^2 \delta$	$\frac{1}{15} \sec \delta$	$\frac{1}{225} \operatorname{tg} \delta \sec \delta$	$\sin \delta$	$\frac{1}{15} \cos \delta$	$\operatorname{tg} \delta$	$\frac{1}{15} \sec^2 \delta$	δ
0°	0.000	0.004	0.067	0.000	0.00	0.07	0.00	0.07	0°
5	0.006	0.004	0.067	0.000	0.09	0.07	0.09	0.07	5
10	0.012	0.005	0.068	0.001	0.17	0.07	0.18	0.07	10
15	0.018	0.005	0.069	0.001	0.26	0.06	0.27	0.07	15
20	0.024	0.005	0.071	0.002	0.34	0.06	0.36	0.08	20
25	0.031	0.005	0.074	0.002	0.42	0.06	0.47	0.08	25
30	0.038	0.006	0.077	0.003	0.50	0.06	0.58	0.09	30
35	0.047	0.007	0.081	0.004	0.57	0.05	0.70	0.10	35
40	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40
40°	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40°
42	0.060	0.008	0.090	0.005	0.67	0.05	0.90	0.12	42
44	0.064	0.009	0.093	0.006	0.69	0.05	0.97	0.13	44
46	0.069	0.009	0.096	0.007	0.72	0.05	1.04	0.14	46
48	0.074	0.010	0.100	0.007	0.74	0.04	1.11	0.15	48
50	0.079	0.011	0.104	0.008	0.77	0.04	1.19	0.16	50
52	0.085	0.012	0.108	0.009	0.79	0.04	1.28	0.18	52
54	0.092	0.013	0.113	0.010	0.81	0.04	1.38	0.19	54
56	0.099	0.014	0.119	0.012	0.83	0.04	1.48	0.21	56
58	0.107	0.016	0.126	0.013	0.85	0.04	1.60	0.24	58
60	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60
60°	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60°
61	0.120	0.019	0.138	0.017	0.87	0.03	1.80	0.28	61
62	0.125	0.020	0.142	0.018	0.88	0.03	1.88	0.30	62
63	0.131	0.022	0.147	0.019	0.89	0.03	1.96	0.32	63
64	0.137	0.023	0.152	0.021	0.90	0.03	2.05	0.35	64
65	0.143	0.025	0.158	0.023	0.91	0.03	2.14	0.37	65
66	0.150	0.027	0.164	0.025	0.91	0.03	2.25	0.40	66
67	0.157	0.029	0.171	0.027	0.92	0.03	2.36	0.44	67
68	0.165	0.032	0.178	0.029	0.93	0.02	2.48	0.48	68
69	0.174	0.035	0.186	0.032	0.93	0.02	2.61	0.52	69
70	0.183	0.038	0.195	0.036	0.94	0.02	2.75	0.57	70
71	0.194	0.042	0.205	0.040	0.95	0.02	2.90	0.63	71
72	0.205	0.047	0.216	0.044	0.95	0.02	3.08	0.70	72
73	0.218	0.052	0.228	0.050	0.96	0.02	3.27	0.78	73
74	0.232	0.058	0.242	0.056	0.96	0.02	3.49	0.88	74
75	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75
75°	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75°
75.5	0.258	0.071	0.266	0.069	0.97	0.02	3.87	1.06	75.5
76.0	0.267	0.076	0.276	0.074	0.97	0.02	4.01	1.14	76.0
76.5	0.278	0.082	0.286	0.079	0.97	0.02	4.17	1.22	76.5
77.0	0.289	0.088	0.296	0.086	0.97	0.01	4.33	1.32	77.0
77.5	0.301	0.095	0.308	0.093	0.98	0.01	4.51	1.42	77.5
78.0	0.314	0.103	0.321	0.101	0.98	0.01	4.70	1.54	78.0
78.5	0.328	0.112	0.334	0.110	0.98	0.01	4.92	1.68	78.5
79.0	0.343	0.122	0.349	0.120	0.98	0.01	5.14	1.85	79.0
79.5	0.360	0.134	0.366	0.132	0.98	0.01	5.40	2.01	79.5
80.0	0.378	0.147	0.384	0.145	0.98	0.01	5.67	2.21	80.0

	0 ^h	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	
0 ^m	0.000	0.259	0.500	0.707	0.866	0.966	60
1	0.004	0.263	0.504	0.710	0.868	0.967	59
2	0.009	0.267	0.508	0.713	0.870	0.968	58
3	0.013	0.271	0.511	0.716	0.872	0.969	57
4	0.017	0.276	0.515	0.719	0.875	0.970	56
5	0.022	0.280	0.519	0.722	0.877	0.971	55
6	0.026	0.284	0.522	0.725	0.879	0.972	54
7	0.031	0.288	0.526	0.728	0.881	0.973	53
8	0.035	0.292	0.530	0.731	0.883	0.974	52
9	0.039	0.297	0.534	0.734	0.885	0.975	51
10	0.044	0.301	0.537	0.737	0.887	0.976	50
11	0.048	0.305	0.541	0.740	0.889	0.977	49
12	0.052	0.309	0.545	0.743	0.891	0.978	48
13	0.057	0.313	0.548	0.746	0.893	0.979	47
14	0.061	0.317	0.552	0.749	0.895	0.980	46
15	0.065	0.321	0.556	0.752	0.897	0.981	45
16	0.070	0.326	0.559	0.755	0.899	0.982	44
17	0.074	0.330	0.563	0.758	0.901	0.982	43
18	0.078	0.334	0.566	0.760	0.903	0.983	42
19	0.083	0.338	0.570	0.763	0.904	0.984	41
20	0.087	0.342	0.574	0.766	0.906	0.985	40
21	0.092	0.346	0.577	0.769	0.908	0.986	39
22	0.096	0.350	0.581	0.772	0.910	0.986	38
23	0.100	0.354	0.584	0.774	0.912	0.987	37
24	0.105	0.358	0.588	0.777	0.914	0.988	36
25	0.109	0.362	0.591	0.780	0.915	0.988	35
26	0.113	0.367	0.595	0.783	0.917	0.989	34
27	0.118	0.371	0.598	0.785	0.919	0.990	33
28	0.122	0.375	0.602	0.788	0.921	0.990	32
29	0.126	0.379	0.605	0.791	0.922	0.991	31
30	0.131	0.383	0.609	0.793	0.924	0.991	30
31	0.135	0.387	0.612	0.796	0.926	0.992	29
32	0.139	0.391	0.616	0.799	0.927	0.993	28
33	0.143	0.395	0.619	0.801	0.929	0.993	27
34	0.148	0.399	0.623	0.804	0.930	0.994	26
35	0.152	0.403	0.626	0.806	0.932	0.994	25
36	0.156	0.407	0.629	0.809	0.934	0.995	24
37	0.161	0.411	0.633	0.812	0.935	0.995	23
38	0.165	0.415	0.636	0.814	0.937	0.995	22
39	0.169	0.419	0.639	0.817	0.938	0.996	21
40	0.174	0.423	0.643	0.819	0.940	0.996	20
41	0.178	0.427	0.646	0.822	0.941	0.997	19
42	0.182	0.431	0.649	0.824	0.943	0.997	18
43	0.187	0.434	0.653	0.827	0.944	0.997	17
44	0.191	0.438	0.656	0.829	0.946	0.998	16
45	0.195	0.442	0.659	0.831	0.947	0.998	15
46	0.199	0.446	0.663	0.834	0.948	0.998	14
47	0.204	0.450	0.666	0.836	0.950	0.998	13
48	0.208	0.454	0.669	0.839	0.951	0.999	12
49	0.212	0.458	0.672	0.841	0.952	0.999	11
50	0.216	0.462	0.676	0.843	0.954	0.999	10
51	0.221	0.466	0.679	0.846	0.955	0.999	9
52	0.225	0.469	0.682	0.848	0.956	0.999	8
53	0.229	0.473	0.685	0.850	0.958	1.000	7
54	0.233	0.477	0.688	0.853	0.959	1.000	6
55	0.238	0.481	0.692	0.855	0.960	1.000	5
56	0.242	0.485	0.695	0.857	0.961	1.000	4
57	0.246	0.489	0.698	0.859	0.962	1.000	3
58	0.250	0.492	0.701	0.862	0.964	1.000	2
59	0.255	0.496	0.704	0.864	0.965	1.000	1
60	0.259	0.500	0.707	0.866	0.966	1.000	0 ^m
	5 ^h	4 ^h	3 ^h	2 ^h	1 ^h	0 ^h	

Übertragung von Rektaszensions- und Deklinationsdifferenzen
vom mittleren Äquinoktium 1931.0 auf das Normaläquinoktium 1925.0

α	a_1	a_2	d_1	α	α	a_1	a_2	d_1	α
^h ^m	— ^s .0350—	— ^s .0000+	+ ^s .0000—	^h ^m	^h ^m	+ ^s .0000+	— ^s .0350+	+ ^s .525—	^h ^m
0 0	350	16	023	24 0	6 0	16	350	524	18 0
10	349	31	046	50	10	31	349	523	50
20	347	46	068	40	20	46	347	520	40
30	345	61	091	30	30	61	345	517	30
40	342	76	113	20	40	76	342	512	20
50				10	50				10
1 0	—0.0338—	—0.0091+	+0.136—	23 0	7 0	+0.0091+	—0.0338+	+0.507—	17 0
10	334	105	158	50	10	105	334	500	50
20	329	120	179	40	20	120	329	493	40
30	323	134	201	30	30	134	323	485	30
40	317	148	222	20	40	148	317	475	20
50	310	162	242	10	50	162	310	465	10
2 0	—0.0303—	—0.0175+	+0.262—	22 0	8 0	+0.0175+	—0.0303+	+0.454—	16 0
10	295	188	282	50	10	188	295	442	50
20	287	201	301	40	20	201	287	430	40
30	278	213	319	30	30	213	278	416	30
40	268	225	337	20	40	225	268	402	20
50	258	237	354	10	50	237	258	387	10
3 0	—0.0248—	—0.0248+	+0.371—	21 0	9 0	+0.0248+	—0.0248+	+0.371—	15 0
10	237	258	387	50	10	258	237	354	50
20	225	268	402	40	20	268	225	337	40
30	213	278	416	30	30	278	213	319	30
40	201	287	430	20	40	287	201	301	20
50	188	295	442	10	50	295	188	282	10
4 0	—0.0175—	—0.0303+	+0.454—	20 0	10 0	+0.0303+	—0.0175+	+0.262—	14 0
10	162	310	465	50	10	310	162	242	50
20	148	317	475	40	20	317	148	222	40
30	134	323	485	30	30	323	134	201	30
40	120	329	493	20	40	329	120	179	20
50	105	334	500	10	50	334	105	158	10
5 0	—0.0091—	—0.0338+	+0.507—	19 0	11 0	+0.0338+	—0.0091+	+0.136—	13 0
10	76	342	512	50	10	342	76	113	50
20	61	345	517	40	20	345	61	091	40
30	46	347	520	30	30	347	46	068	30
40	31	349	523	20	40	349	31	046	20
50	16	350	524	10	50	350	16	023	10
6 0	—0.0000—	—0.0350+	+0.525—	18 0	12 0	+0.0350+	—0.0000+	+0.000—	12 0

Für α zwischen 12^h und 24^h gelten die Vorzeichen zur Rechten.

$$\Delta p_{\alpha}^{\prime} = a_1 \cdot \operatorname{tg} \delta \cdot \Delta \alpha^m + a_2 \cdot \frac{1}{15} \sec^2 \delta \cdot \Delta \delta'; \quad \Delta p_{\delta}^{\prime} = d_1 \cdot \Delta \alpha^m$$

$\Delta \alpha^m$ bedeutet die Rektaszensionsdifferenz in Zeitminuten, $\Delta \delta'$ ist die Deklinationsdifferenz in Bogenminuten.

Die Werte von $\operatorname{tg} \delta$ und $\frac{1}{15} \sec^2 \delta$ sind auf S. 268* enthalten.

Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige
wahre Äquinoktium

O ^h Welt-Zeit	<i>f</i>	log <i>g</i>	<i>G</i>	O ^h Welt-Zeit	<i>f</i>	log <i>g</i>	<i>G</i>
1931				1931			
Jan. -1	+18.090	2.07294	23 ^h 44 ^m 22 ^s	Mai 15	+19.272	2.10044	23 ^h 44 ^m 3 ^s
+3	18.138	2.07410	23 44 20	19	19.313	2.10133	23 44 12
7	18.186	2.07524	23 44 17	23	19.354	2.10226	23 44 20
11	18.233	2.07636	23 44 12	27	19.397	2.10321	23 44 28
15	18.279	2.07746	23 44 7	31	19.441	2.10418	23 44 35
19	+18.323	2.07854	23 44 1	Juni 4	+19.486	2.10518	23 44 41
23	18.367	2.07958	23 43 54	8	19.531	2.10618	23 44 46
27	18.409	2.08059	23 43 47	12	19.578	2.10720	23 44 51
31	18.449	2.08156	23 43 40	16	19.624	2.10821	23 44 54
Febr. 4	18.488	2.08249	23 43 32	20	19.671	2.10923	23 44 57
8	+18.525	2.08338	23 43 24	24	+19.718	2.11025	23 44 59
12	18.561	2.08423	23 43 17	28	19.764	2.11127	23 44 59
16	18.595	2.08504	23 43 9	Juli 2	19.811	2.11229	23 44 59
20	18.628	2.08582	23 43 2	6	19.857	2.11331	23 44 57
24	18.659	2.08657	23 42 55	10	19.903	2.11432	23 44 55
28	+18.689	2.08728	23 42 49	14	+19.948	2.11531	23 44 52
März 4	18.718	2.08797	23 42 45	18	19.992	2.11628	23 44 48
8	18.746	2.08863	23 42 41	22	20.035	2.11722	23 44 44
12	18.774	2.08928	23 42 38	26	20.077	2.11814	23 44 39
16	18.801	2.08991	23 42 36	30	20.118	2.11902	23 44 33
20	+18.828	2.09053	23 42 36	Aug. 3	+20.157	2.11989	23 44 27
24	18.855	2.09114	23 42 36	7	20.195	2.12072	23 44 21
28	18.882	2.09176	23 42 38	11	20.232	2.12153	23 44 15
April 1	18.909	2.09238	23 42 41	15	20.268	2.12231	23 44 9
5	18.937	2.09301	23 42 45	19	20.302	2.12306	23 44 3
9	+18.965	2.09365	23 42 50	23	+20.335	2.12377	23 43 57
13	18.994	2.09431	23 42 56	27	20.366	2.12445	23 43 52
17	19.025	2.09498	23 43 3	31	20.397	2.12511	23 43 47
21	19.056	2.09568	23 43 11	Sept. 4	20.427	2.12575	23 43 43
25	19.089	2.09640	23 43 19	8	20.455	2.12637	23 43 40
29	+19.123	2.09715	23 43 27	12	+20.483	2.12697	23 43 37
Mai 3	19.158	2.09792	23 43 36	16	20.511	2.12756	23 43 36
7	19.195	2.09873	23 43 45	20	20.538	2.12814	23 43 35
11	19.233	2.09957	23 43 54	24	20.565	2.12871	23 43 36
15	+19.272	2.10044	23 44 3	28	+20.592	2.12927	23 43 37

Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige
wahre Äquinoktium

O ^h Welt-Zeit	f	$\log g$	G	O ^h Welt-Zeit	f	$\log g$	G
1931				1931			
Sept. 28	+20.592	2.12927	23 ^h 43 ^m 37 ^s	Nov. 15	+20.978	2.13716	23 ^h 44 ^m 59 ^s
Okt. 2	20.619	2.12983	23 43 39	19	21.020	2.13799	23 45 8
6	20.646	2.13040	23 43 43	23	21.062	2.13885	23 45 17
10	20.674	2.13098	23 43 48	27	21.106	2.13974	23 45 25
14	20.703	2.13157	23 43 53	Dez. 1	21.151	2.14066	23 45 32
18	+20.733	2.13218	23 43 59	5	+21.198	2.14160	23 45 39
22	20.764	2.13281	23 44 6	9	21.245	2.14255	23 45 45
26	20.796	2.13346	23 44 14	13	21.293	2.14352	23 45 50
30	20.829	2.13414	23 44 23	17	21.342	2.14450	23 45 54
Nov. 3	20.864	2.13485	23 44 32	21	21.391	2.14549	23 45 57
7	+20.901	2.13559	23 44 41	25	+21.440	2.14648	23 45 59
11	20.939	2.13636	23 44 50	29	21.489	2.14747	23 46 0
15	+20.978	2.13716	23 44 59	33	+21.537	2.14845	23 45 59

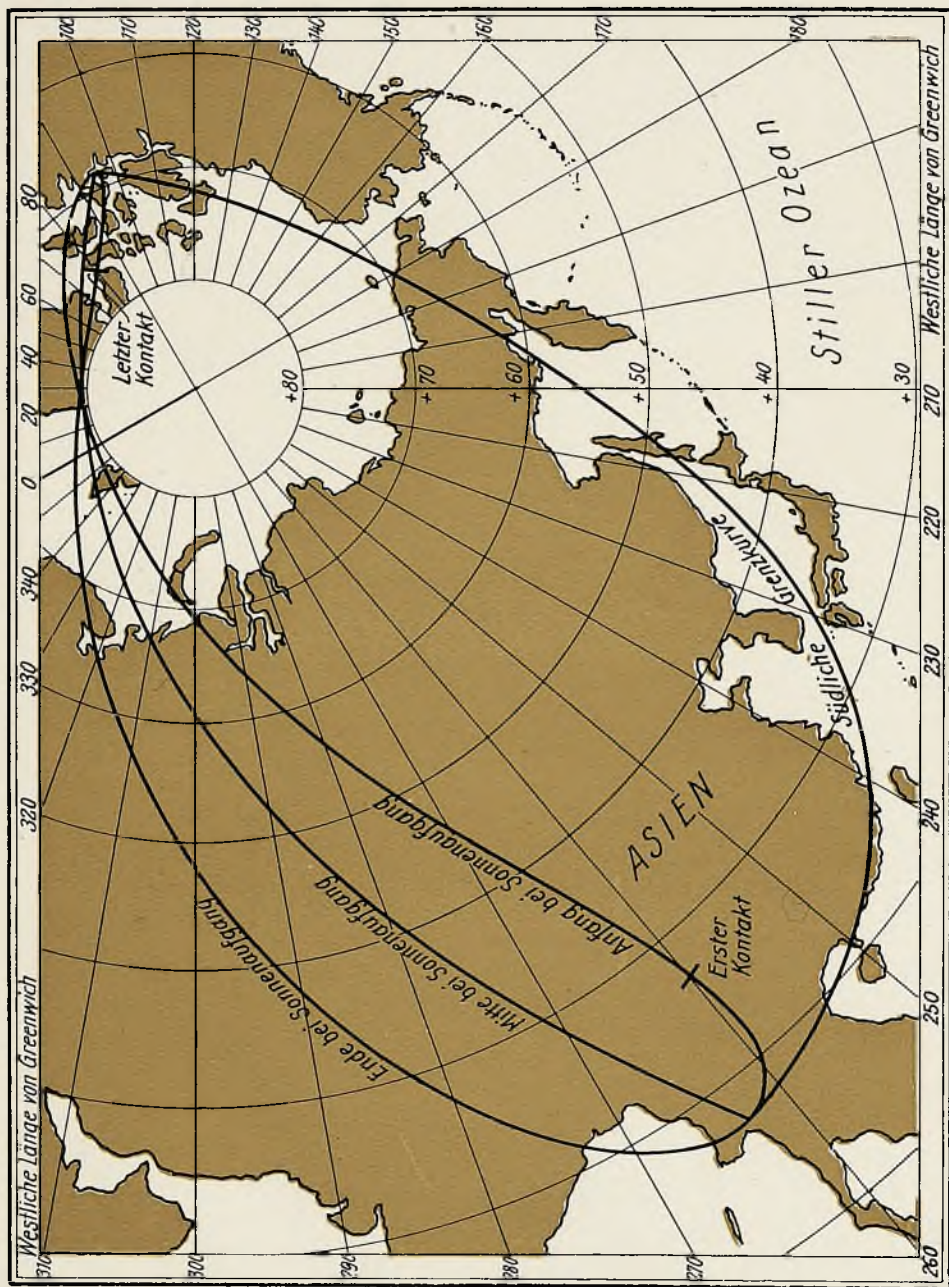
Die mit den vorstehend gegebenen Größen f , $\log g$ und G berechnete Reduktion vom mittleren Äquinoktium 1925.0 auf das wahre Äquinoktium der Epoche bedarf noch einer Verbesserung, die von dem Einfluß der Variatio saecularis herrührt und auf S. 273^u enthalten ist. Es wird somit:

$$\text{Red. in } \alpha = f + \frac{1}{15} g \sin (G + \alpha) \operatorname{tg} \delta + \text{Korr. nach S. 273}^*$$

$$\text{Red. in } \delta = g \cos (G + \alpha) + \text{Korr. nach S. 273}^*$$

Partielle Sonnenfinsternis

1931 April 17-18



1874. Jan.

Korrektion der Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium (s. S. 271*—272*), berechnet für 1931.0, mit Hinzufügung ihrer einjährigen Änderung

α	δ							
	+60°	+50°	+30°	+10°	—10°	—30°	—50°	—60°
Für Rektaszension (in 0°.001)								
0 ^h	+10 +3	+7 +2	+3 +1	+1 0	—1 0	—3 —1	—6 —2	—9 —3
1	+13 +4	+9 +3	+4 +1	+2 +1	0 0	—2 —1	—4 —1	—5 —2
2	+15 +5	+10 +3	+5 +2	+2 +1	+1 0	—1 0	—1 0	—1 0
3	+15 +5	+9 +3	+4 +1	+2 +1	+1 0	0 0	0 0	+2 +1
4	+12 +4	+7 +2	+4 +1	+2 +1	+1 0	+1 0	+1 0	+3 +1
5	+7 +2	+4 +1	+2 +1	+1 0	+1 0	+1 0	+1 0	+2 +1
6	0 0	0 0	0 0	0 0	0 0	0 0	0 0	+1 0
7	—6 —2	—4 —1	—1 0	—1 0	0 0	0 0	0 0	—1 0
8	—12 —4	—7 —2	—3 —1	—1 0	0 0	0 0	0 0	—2 —1
9	—15 —5	—9 —3	—4 —1	—2 —1	0 0	+1 0	0 0	—1 0
10	—15 —5	—9 —3	—4 —1	—2 —1	0 0	+1 0	+2 +1	+1 0
11	—13 —4	—8 —3	—4 —1	—1 0	+1 0	+2 +1	+4 +1	+5 +2
12	—9 —3	—6 —2	—3 —1	—1 0	+1 0	+3 +1	+7 +2	+10 +3
13	—5 —2	—4 —1	—2 —1	0 0	+2 +1	+4 +1	+9 +3	+13 +4
14	—1 0	—1 0	—1 0	+1 0	+2 +1	+5 +2	+10 +3	+15 +5
15	+2 +1	0 0	0 0	+1 0	+2 +1	+4 +1	+9 +3	+15 +5
16	+3 +1	+1 0	+1 0	+1 0	+2 +1	+4 +1	+7 +2	+12 +4
17	+2 +1	+1 0	+1 0	+1 0	+1 0	+2 +1	+4 +1	+7 +2
18	+1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
19	—1 0	0 0	0 0	0 0	—1 0	—1 0	—4 —1	—6 —2
20	—2 —1	0 0	0 0	0 0	—1 0	—3 —1	—7 —2	—12 —4
21	—1 0	0 0	+1 0	0 0	—2 —1	—4 —1	—9 —3	—15 —5
22	+1 0	+2 +1	+1 0	0 0	—2 —1	—4 —1	—9 —3	—15 —5
23	+5 +2	+4 +1	+2 +1	+1 0	—1 0	—4 —1	—8 —3	—13 —4
24	+10 +3	+7 +2	+3 +1	+1 0	—1 0	—3 —1	—6 —2	—9 —3

Für Deklination (in 0°.01)								
0 ^h	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
1	—3 —1	—3 —1	—2 —1	—2 —1	—2 —1	—2 —1	—2 —1	—2 —1
2	—6 —2	—5 —2	—5 —2	—4 —1	—4 —1	—4 —1	—3 —1	—3 —1
3	—9 —3	—8 —3	—7 —2	—6 —2	—5 —2	—5 —2	—4 —1	—3 —1
4	—12 —4	—10 —3	—9 —3	—8 —3	—7 —2	—6 —2	—4 —1	—3 —1
5	—14 —5	—12 —4	—10 —3	—8 —3	—7 —2	—6 —2	—4 —1	—2 —1
6	—14 —5	—12 —4	—10 —3	—9 —3	—7 —2	—6 —2	—4 —1	—2 —1
7	—13 —4	—12 —4	—10 —3	—8 —3	—7 —2	—6 —2	—4 —1	—2 —1
8	—11 —4	—10 —3	—8 —3	—7 —2	—6 —2	—5 —2	—4 —1	—2 —1
9	—9 —3	—7 —3	—7 —2	—6 —2	—5 —2	—5 —2	—4 —1	—3 —1
10	—5 —2	—5 —2	—4 —1	—4 —1	—4 —1	—3 —1	—3 —1	—2 —1
11	—2 —1	—2 —1	—2 —1	—2 —1	—2 —1	—2 —1	—2 —1	—2 —1
12	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
13	+2 +1	+2 +1	+2 +1	+2 +1	+2 +1	+2 +1	+3 +1	+3 +1
14	+3 +1	+3 +1	+4 +1	+4 +1	+4 +1	+5 +2	+5 +2	+6 +2
15	+3 +1	+4 +1	+5 +2	+5 +2	+6 +2	+7 +2	+8 +3	+9 +3
16	+3 +1	+4 +1	+6 +2	+7 +2	+8 +3	+9 +3	+10 +3	+12 +4
17	+2 +1	+4 +1	+6 +2	+7 +2	+8 +3	+10 +3	+12 +4	+14 +5
18	+2 +1	+4 +1	+6 +2	+7 +2	+9 +3	+10 +3	+12 +4	+14 +5
19	+2 +1	+4 +1	+6 +2	+7 +2	+8 +3	+10 +3	+12 +4	+13 +4
20	+2 +1	+4 +1	+5 +2	+6 +2	+7 +2	+8 +3	+10 +3	+11 +4
21	+3 +1	+4 +1	+5 +2	+6 +2	+6 +2	+7 +2	+7 +3	+9 +3
22	+2 +1	+3 +1	+3 +1	+4 +1	+4 +1	+4 +1	+5 +2	+5 +2
23	+2 +1	+2 +1	+2 +1	+2 +1	+2 +1	+2 +1	+2 +1	+2 +1
24	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0

α	$0^h, 12^h$		$1^h, 13^h$		$2^h, 14^h$		$3^h, 15^h$		$4^h, 16^h$		$5^h, 17^h$		α
m	-A ₁ +	-D+	-A ₁ +	-D+	-A ₁ +	-D+	-A ₁ +	-D+	-A ₁ +	-D+	-A ₁ +	-D+	m
0		120.26	2.070	116.19	4.004	104.19	5.665	85.10	6.941	60.20	7.743	31.20	0
1	0.029	120.26	104	116.05	035	103.93	690	84.73	959	59.75	752	30.70	1
2	064	120.26	138	115.91	065	103.67	715	84.36	976	59.30	761	30.19	2
3	099	120.26	171	115.77	095	103.40	740	83.98	6.993	58.84	770	29.68	3
4	134	120.25	205	115.63	125	103.13	764	83.60	7.010	58.38	779	29.17	4
5	169	120.24	238	115.48	155	102.86	788	83.22	027	57.92	787	28.66	5
6	204	120.23	272	115.33	184	102.59	812	82.84	044	57.46	795	28.15	6
7	239	120.21	306	115.18	214	102.31	836	82.46	061	57.00	803	27.64	7
8	274	120.19	339	115.03	244	102.03	860	82.08	077	56.54	811	27.13	8
9	309	120.17	373	114.88	273	101.75	884	81.70	093	56.07	819	26.62	9
10	0.344	120.15	2.406	114.72	4.303	101.47	5.908	81.31	7.109	55.60	7.827	26.11	10
11	379	120.13	439	114.56	332	101.19	932	80.92	125	55.14	835	25.60	11
12	414	120.10	473	114.40	362	100.91	955	80.53	141	54.67	842	25.09	12
13	449	120.07	506	114.24	391	100.62	5.978	80.14	157	54.20	849	24.58	13
14	484	120.04	539	114.08	421	100.33	6.001	79.75	173	53.73	856	24.06	14
15	519	120.01	572	113.91	450	100.04	024	79.36	188	53.26	863	23.54	15
16	554	119.97	605	113.74	479	99.75	047	78.97	204	52.79	870	23.03	16
17	589	119.93	638	113.57	508	99.46	070	78.57	219	52.32	877	22.52	17
18	624	119.89	671	113.40	537	99.16	092	78.17	234	51.85	883	22.00	18
19	659	119.85	704	113.22	565	98.86	115	77.77	249	51.38	889	21.48	19
20	0.693	119.81	2.737	113.04	4.594	98.56	6.138	77.37	7.264	50.90	7.895	20.96	20
21	728	119.76	770	112.86	622	98.26	161	76.97	279	50.43	901	20.45	21
22	763	119.71	803	112.68	651	97.96	183	76.57	294	49.95	907	19.93	22
23	798	119.66	836	112.49	680	97.65	205	76.16	308	49.47	913	19.41	23
24	833	119.61	869	112.30	708	97.34	227	75.75	322	48.99	919	18.89	24
25	867	119.56	901	112.11	737	97.03	249	75.34	336	48.51	924	18.37	25
26	902	119.50	934	111.92	765	96.72	271	74.93	350	48.03	929	17.86	26
27	937	119.44	966	111.73	793	96.41	293	74.52	364	47.55	934	17.34	27
28	0.972	119.38	2.999	111.54	821	96.10	315	74.11	378	47.07	939	16.82	28
29	1.007	119.32	3.031	111.34	849	95.78	336	73.70	392	46.59	944	16.30	29
30	1.041	119.25	3.063	111.14	4.877	95.46	6.357	73.28	7.405	46.10	7.948	15.78	30
31	076	119.18	096	110.94	904	95.14	379	72.86	419	45.62	953	15.26	31
32	111	119.11	128	110.74	932	94.82	400	72.44	432	45.13	957	14.74	32
33	145	119.04	160	110.53	959	94.50	421	72.02	445	44.64	961	14.22	33
34	180	118.96	192	110.32	4.987	94.17	442	71.60	458	44.15	965	13.70	34
35	214	118.88	224	110.11	5.014	93.84	463	71.18	471	43.66	969	13.17	35
36	249	118.80	256	109.90	042	93.51	483	70.76	484	43.17	973	12.65	36
37	283	118.72	288	109.69	069	93.18	504	70.34	496	42.68	977	12.13	37
38	318	118.63	320	109.47	096	92.85	524	69.91	508	42.19	981	11.61	38
39	352	118.54	352	109.25	123	92.52	545	69.48	520	41.70	984	11.09	39
40	1.387	118.45	3.383	109.03	5.150	92.18	6.565	69.05	7.532	41.21	7.987	10.56	40
41	421	118.36	415	108.81	176	91.84	585	68.62	544	40.72	990	10.04	41
42	456	118.27	447	108.59	203	91.50	605	68.19	556	40.23	993	9.52	42
43	490	118.17	478	108.36	229	91.16	625	67.76	568	39.73	996	9.00	43
44	525	118.07	510	108.13	256	90.82	644	67.32	579	39.23	7.998	8.48	44
45	559	117.97	541	107.90	282	90.47	663	66.88	590	38.73	8.000	7.95	45
46	593	117.87	573	107.67	309	90.12	683	66.45	601	38.24	002	7.43	46
47	627	117.76	604	107.43	335	89.77	702	66.01	612	37.74	004	6.90	47
48	662	117.65	635	107.19	361	89.42	721	65.57	623	37.24	006	6.38	48
49	696	117.54	666	106.95	387	89.07	740	65.13	634	36.74	008	5.85	49
50	1.730	117.43	3.697	106.71	5.413	88.72	6.759	64.69	7.645	36.24	8.010	5.33	50
51	764	117.32	728	106.47	438	88.37	778	64.25	656	35.74	012	4.80	51
52	798	117.20	759	106.23	464	88.01	797	63.81	666	35.24	013	4.28	52
53	832	117.08	790	105.98	489	87.65	816	63.36	676	34.74	014	3.75	53
54	866	116.96	821	105.73	515	87.29	834	62.91	686	34.24	015	3.23	54
55	900	116.84	852	105.48	540	86.93	852	62.46	696	33.73	016	2.70	55
56	934	116.71	883	105.23	565	86.57	870	62.01	706	33.23	017	2.18	56
57	1.968	116.58	913	104.97	590	86.21	888	61.56	716	32.73	018	1.65	57
58	2.002	116.45	944	104.71	615	85.84	906	61.11	725	32.22	018	1.13	58
59	036	116.32	974	104.45	640	85.47	924	60.66	734	31.71	018	0.60	59
60	2.070	116.19	4.004	104.19	5.665	85.10	6.941	60.20	7.743	31.20	8.018	0.08	60

Äquinoktium 1931.0 auf das Normaläquinoktium 1925.0 275*

α	$6^h, 18^h$		$7^h, 19^h$		$8^h, 20^h$		$9^h, 21^h$		$10^h, 22^h$		$11^h, 23^h$		α
m	-A1+	+D-	-A1+	+D-	-A1+	+D-	-A1+	+D-	-A1+	+D-	-A1+	+D-	m
0	8.018		7.746	31.05	6.946	60.06	5.673	84.98	4.013	104.11	2.080	116.15	0
1	018	0.45	737	31.56	929	60.52	648	85.35	3.983	104.37	047	116.28	1
2	018	0.97	728	32.06	911	60.97	623	85.72	952	104.63	2.013	116.41	2
3	018	1.50	719	32.57	893	61.42	598	86.09	922	104.89	1.979	116.54	3
4	017	2.02	709	33.08	875	61.87	573	86.46	891	105.15	945	116.67	4
5	016	2.54	699	33.58	857	62.32	548	86.82	861	105.40	911	116.80	5
6	015	3.07	689	34.09	839	62.77	523	87.18	831	105.65	877	116.92	6
7	014	3.59	679	34.59	821	63.22	498	87.54	800	105.90	843	117.04	7
8	013	4.12	669	35.09	803	63.67	473	87.90	769	106.15	809	117.16	8
9	012	4.64	659	35.59	784	64.11	447	88.26	738	106.40	775	117.28	9
10	8.010	5.16	7.648	36.09	6.765	64.55	5.421	88.61	3.707	106.64	1.741	117.40	10
11	009	5.69	638	36.59	746	64.99	395	88.97	676	106.88	706	117.51	11
12	007	6.21	627	37.09	727	65.43	369	89.32	645	107.12	672	117.62	12
13	005	6.74	616	37.59	708	65.87	343	89.67	613	107.36	638	117.73	13
14	003	7.26	605	38.09	689	66.31	317	90.02	582	107.60	604	117.84	14
15	8.001	7.78	594	38.58	669	66.75	291	90.37	550	107.83	570	117.94	15
16	7.999	8.31	583	39.08	650	67.19	265	90.72	519	108.06	535	118.04	16
17	997	8.83	572	39.57	630	67.62	239	91.06	487	108.28	501	118.14	17
18	994	9.36	560	40.07	610	68.05	212	91.40	456	108.51	467	118.24	18
19	991	9.88	548	40.57	590	68.48	185	91.74	424	108.73	432	118.33	19
20	7.988	10.40	7.536	41.06	6.570	68.91	5.158	92.08	3.393	108.96	1.398	118.42	20
21	985	10.93	524	41.55	550	69.34	131	92.42	361	109.18	363	118.51	21
22	982	11.45	512	42.04	530	69.77	104	92.75	330	109.40	329	118.60	22
23	979	11.97	500	42.53	510	70.20	077	93.08	298	109.62	294	118.69	23
24	975	12.49	487	43.02	490	70.63	050	93.41	266	109.84	260	118.77	24
25	971	13.01	474	43.51	469	71.05	5.023	93.74	234	110.05	225	118.85	25
26	967	13.54	461	44.00	448	71.47	4.996	94.07	202	110.26	191	118.93	26
27	963	14.06	448	44.49	427	71.89	969	94.40	170	110.47	156	119.01	27
28	959	14.58	435	44.98	406	72.31	941	94.72	137	110.68	122	119.08	28
29	955	15.10	422	45.47	385	72.73	913	95.04	105	110.88	087	119.15	29
30	7.950	15.62	7.409	45.95	6.364	73.15	4.885	95.36	3.073	111.08	1.052	119.22	30
31	945	16.14	396	46.44	343	73.57	857	95.68	041	111.28	1.018	119.29	31
32	940	16.66	383	46.92	322	73.98	829	96.00	3.008	111.48	0.983	119.36	32
33	935	17.18	369	47.40	300	74.39	801	96.32	2.976	111.67	948	119.42	33
34	930	17.70	355	47.88	278	74.80	773	96.63	943	111.86	913	119.48	34
35	925	18.21	341	48.36	256	75.21	745	96.94	911	112.05	878	119.54	35
36	920	18.73	327	48.84	234	75.62	717	97.25	878	112.24	844	119.60	36
37	915	19.25	313	49.32	212	76.03	689	97.56	846	112.43	809	119.65	37
38	909	19.77	299	49.80	190	76.44	661	97.87	813	112.62	774	119.70	38
39	903	20.29	284	50.28	168	76.84	632	98.17	780	112.80	739	119.75	39
40	7.897	20.80	7.269	50.75	6.145	77.24	4.603	98.47	2.747	112.98	0.704	119.80	40
41	891	21.32	254	51.23	123	77.64	575	98.77	714	113.16	670	119.84	41
42	885	21.83	239	51.70	100	78.04	546	99.07	681	113.34	635	119.88	42
43	879	22.35	224	52.18	077	78.44	517	99.37	648	113.52	600	119.92	43
44	872	22.86	209	52.65	054	78.84	488	99.66	615	113.69	565	119.96	44
45	865	23.38	193	53.12	031	79.23	459	99.95	582	113.86	530	120.00	45
46	858	23.89	178	53.59	6.008	79.63	430	100.24	549	114.03	495	120.03	46
47	851	24.41	162	54.06	5.985	80.02	401	100.53	515	114.19	460	120.06	47
48	844	24.92	146	54.53	962	80.41	371	100.82	482	114.35	425	120.09	48
49	837	25.44	130	55.00	939	80.80	342	101.11	449	114.51	390	120.12	49
50	7.829	25.95	7.114	55.46	5.915	81.19	4.312	101.39	2.416	114.67	0.355	120.15	50
51	821	26.47	098	55.93	891	81.58	283	101.67	382	114.83	320	120.17	51
52	813	26.98	082	56.39	867	81.97	253	101.95	349	114.99	285	120.19	52
53	805	27.49	066	56.85	843	82.35	224	102.23	316	115.14	250	120.21	53
54	797	28.00	049	57.31	819	82.73	194	102.50	282	115.29	215	120.22	54
55	789	28.51	032	57.77	795	83.11	164	102.77	249	115.44	180	120.23	55
56	781	29.02	7.015	58.23	771	83.49	134	103.04	215	115.59	145	120.24	56
57	773	29.53	6.998	58.69	747	83.87	104	103.31	182	115.73	110	120.25	57
58	764	30.04	981	59.15	723	84.24	074	103.58	148	115.87	075	120.26	58
59	755	30.55	964	59.61	698	84.61	044	103.85	114	116.01	040	120.26	59
60	7.746	31.05	6.946	60.06	5.673	84.98	4.013	104.11	2.080	116.15	0.005	120.26	60

Übertragung von Sternörter von mittleren Äquinoktium 1931.0
auf das Normaläquinoktium 1925.0

α	A	A_2	D_1	α	α	A	A_2	D_1	α
$0^h 0^m$	-18.437	+0.0000	-0.000	$12^h 0^m$	$6^h 0^m$	-18.437	-0.0000	-0.035	$18^h 0^m$
10	437	02	0	10	10	437	02	35	10
20	437	04	0	20	20	437	04	35	20
30	437	06	1	30	30	437	06	34	30
40	437	08	1	40	40	438	08	34	40
50	437	10	2	50	50	438	10	33	50
1 0	-18.436	+0.0012	-0.002	13 0	7 0	-18.438	-0.0012	-0.033	19 0
10	436	13	3	10	10	438	13	32	10
20	436	15	4	20	20	438	15	31	20
30	436	17	5	30	30	438	17	30	30
40	436	18	6	40	40	438	18	29	40
50	436	19	7	50	50	438	19	28	50
2 0	-18.436	+0.0020	-0.009	14 0	8 0	-18.438	-0.0020	-0.026	20 0
10	436	21	10	10	10	438	21	25	10
20	436	22	12	20	20	438	22	24	20
30	436	23	13	30	30	438	23	22	30
40	436	23	14	40	40	438	23	21	40
50	436	23	16	50	50	438	23	19	50
3 0	-18.436	+0.0023	-0.018	15 0	9 0	-18.438	-0.0023	-0.018	21 0
10	436	23	19	10	10	438	23	16	10
20	436	23	21	20	20	438	23	14	20
30	436	23	22	30	30	438	23	13	30
40	436	22	24	40	40	438	22	12	40
50	436	21	25	50	50	438	21	10	50
4 0	-18.436	+0.0020	-0.026	16 0	10 0	-18.438	-0.0020	-0.009	22 0
10	436	19	28	10	10	438	19	7	10
20	436	18	29	20	20	438	18	6	20
30	436	17	30	30	30	438	17	5	30
40	436	15	31	40	40	438	15	4	40
50	436	13	32	50	50	438	13	3	50
5 0	-18.436	+0.0012	-0.033	17 0	11 0	-18.438	-0.0012	-0.002	23 0
10	437	10	33	10	10	438	10	2	10
20	437	08	34	20	20	438	08	1	20
30	437	06	34	30	30	437	06	1	30
40	437	04	35	40	40	437	04	0	40
50	437	02	35	50	50	437	02	0	50
6 0	-18.437	+0.0000	-0.035	18 0	12 0	-18.437	-0.0000	-0.000	24 0

$$\alpha_{1925} = \alpha_{1931} + A + A_1 \operatorname{tg} \delta_{1931} + A_2 \operatorname{tg}^2 \delta_{1931}$$

$$\delta_{1925} = \delta_{1931} + D + D_1 \operatorname{tg} \delta_{1931}$$

A_1 und D sind aus der Tafel (S. 274*/275*) mit dem Argument α_{1931} zu entnehmen; für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten.

Finsternisse, Sternbedeckungen, Mösting A, Trabanten

Konstellationen, Hilfstafeln

1931

Im Jahre 1931 finden drei Sonnenfinsternisse
und zwei Mondfinsternisse statt.

I. Totale Mondfinsternis 1931 April 2
sichtbar in Berlin

Opposition in Rektaszension . . .	April 2, 19	^h 55 ^m 53.4	Welt-Zeit
Rektaszension des Mondes		12 ^h 44 ^m 32.94	
Stündliche Änderung		2 13.54	
Rektaszension der Sonne		0 44 32.94	
Stündliche Änderung		9.10	
Deklination des Mondes		-4° 33' 11.0	
Stündliche Änderung		-17 53.9	
Deklination der Sonne		+4 47 23.3	
Stündliche Änderung		+ 57.7	
Äquatorialhorizontalparallaxe des Mondes .		1° 1' 3.8	
» der Sonne		8.8	
Halbmesser des Mondes		16' 37.5	
» der Sonne		15 59.8	

Eintritt des Mondes in den Halbschatten	April 2, 17	^h 27.2	Welt-Zeit
Eintritt des Mondes in den Kernschatten .	»	18 23.2	»
Anfang der totalen Verfinsterung	»	19 22.3	»
Mitte der Finsternis	»	20 7.4	»
Ende der totalen Verfinsterung	»	20 52.6	»
Austritt des Mondes aus dem Kernschatten	»	21 51.7	»
Austritt des Mondes aus dem Halbschatten	»	22 48.0	»

Der Mond steht zu den Zeiten der ersten und zweiten Berührung
mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

275° 40' westliche Länge von Greenwich, 4° 6' südliche Breite
326° 0' » » » » 5° 8' » »

Positionswinkel des Eintritts = 130°
» » Austritts = 287°

Größe der Finsternis in Einheiten des Monddurchmessers = 1.509

Der Anfang der Finsternis ist sichtbar in den westlichen Teilen
des Stillen Ozeans, in Asien, in Australien, im Indischen Ozean, in
Europa außer seiner westlichsten Teile und in Afrika mit Ausnahme
der nordwestlichen Teile. Das Ende ist sichtbar in Asien mit Aus-
nahme der östlichen Teile, im Indischen Ozean, in Europa, in Afrika,
im Atlantischen Ozean und in den östlichen Teilen von Südamerika.

II. Partielle Sonnenfinsternis 1931 April 17—18 unsichtbar in Berlin

Konjunktion in Rektaszension	April 18, 1 ^h 59 ^m 22. ^s 4	Welt-Zeit
Rektaszension des Mondes	1 ^h 40 ^m 31. ^s 64	
Stündliche Änderung	1 51.58	
Rektaszension der Sonne	1 40 31.64	
Stündliche Änderung	9.27	
Deklination des Mondes	+11° 43' 33.7	
Stündliche Änderung	+13 28.5	
Deklination der Sonne	+10 26 19.7	
Stündliche Änderung	+ 52.8	
Äquatorialhorizontalparallaxe des Mondes	54' 44.3	
» der Sonne	8.8	
Halbmesser des Mondes	14' 54.2	
» der Sonne	15 55.6	

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
Beginn der Finsternis	April 17, 22 ^h 57. ^m 4	259° 45'	+26° 52'
Größte Phase	» 18, 0 45.1	301 16	+61 38
Ende der Finsternis	» 18, 2 32.3	80 1	+76 6

Größe der Finsternis in Einheiten des Sonnendurchmessers = 0.511

Die Finsternis ist sichtbar in Asien mit Ausnahme der östlichen und südwestlichen Teile, im nordöstlichsten Teile von Europa und im nördlichen Eismeer.

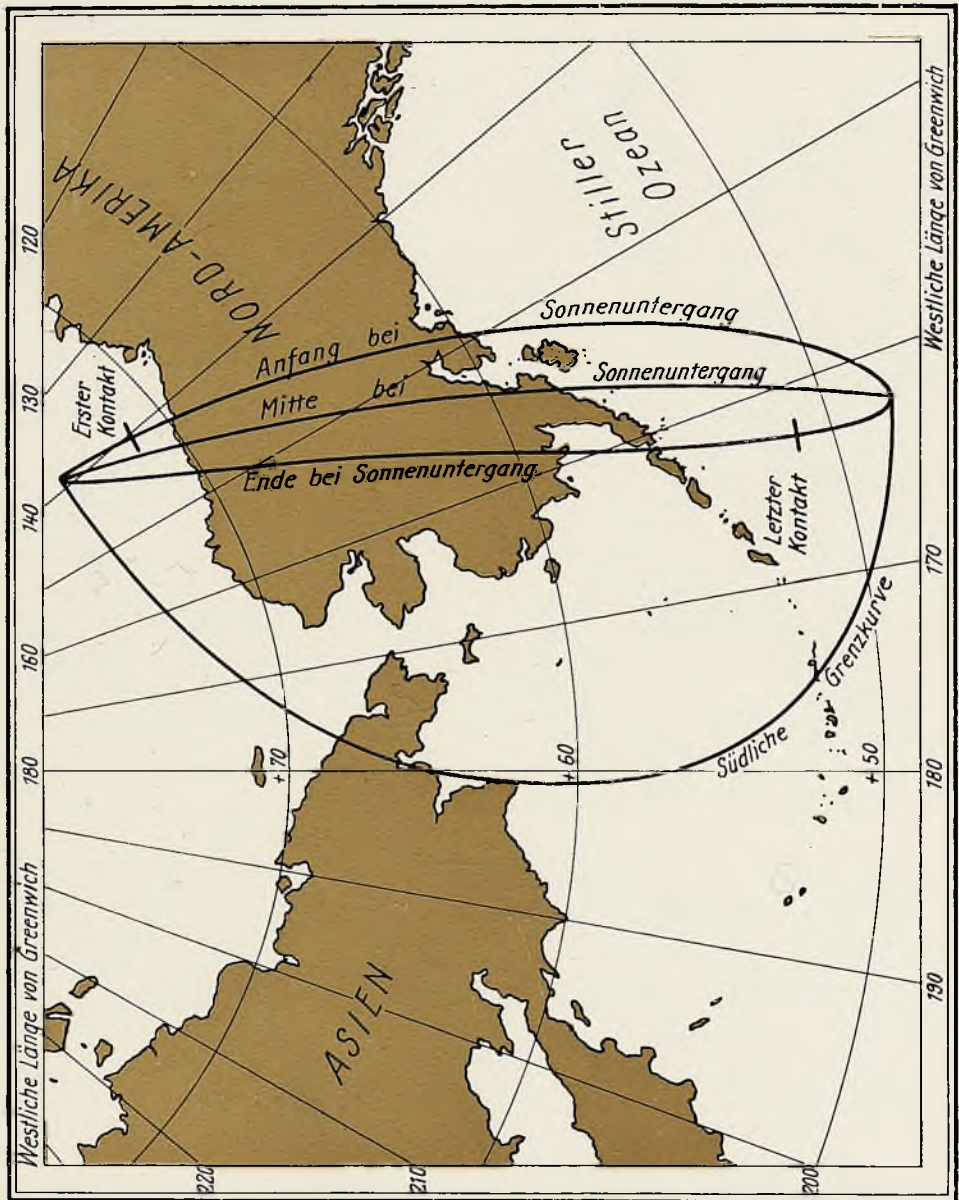
Elemente der partiellen Sonnenfinsternis 1931 April 17—18

Welt-Zeit	x	y	$\log \sin d$	$\log \cos d$	μ	$l^{(a)}$
22 ^h 50 ^m	-1.44734	+0.68684	9.25614	9.99282	162° 35.1	+0.56492
23 0	-1.37094	+0.72532	9.25624	9.99282	165 5.1	+0.56491
10	1.29454	0.76379	9.25634	9.99281	167 35.1	0.56490
20	1.21813	0.80226	9.25643	9.99281	170 5.2	0.56489
30	1.14172	0.84073	9.25653	9.99281	172 35.2	0.56488
40	1.06531	0.87919	9.25663	9.99280	175 5.2	0.56488
50	0.98889	0.91764	9.25673	9.99280	177 35.3	0.56487
0 0	-0.91247	+0.95609	9.25682	9.99280	180 5.3	+0.56486
10	0.83605	0.99454	9.25692	9.99279	182 35.3	0.56485
20	0.75963	1.03298	9.25702	9.99279	185 5.4	0.56483
30	0.68320	1.07141	9.25712	9.99278	187 35.4	0.56482
40	0.60677	1.10984	9.25721	9.99278	190 5.5	0.56481
50	0.53033	1.14826	9.25731	9.99278	192 35.5	0.56480
1 0	-0.45390	+1.18668	9.25741	9.99278	195 5.5	+0.56478
10	0.37746	1.22509	9.25750	9.99277	197 35.6	0.56477
20	0.30102	1.26350	9.25760	9.99277	200 5.6	0.56475
30	0.22457	1.30191	9.25770	9.99277	202 35.6	0.56474
40	0.14812	1.34030	9.25779	9.99276	205 5.7	0.56472
50	-0.07167	1.37869	9.25789	9.99276	207 35.7	0.56471
2 0	+0.00478	+1.41707	9.25799	9.99276	210 5.8	+0.56469
10	0.08124	1.45544	9.25808	9.99275	212 35.8	0.56467
20	0.15770	1.49381	9.25818	9.99275	215 5.8	0.56465
30	0.23417	1.53218	9.25828	9.99275	217 35.9	0.56463
40	+0.31063	+1.57054	9.25837	9.99274	220 5.9	+0.56461

Welt-Zeit	x'	y'	$\log \tan f^{(a)}$
22 ^h 0 ^m	+0.007638	+0.003850	7.66813
23 0	0.007640	0.003848	7.66812
0 0	0.007642	0.003845	7.66812
1 0	0.007644	0.003842	7.66811
2 0	0.007645	0.003838	7.66811
3 0	+0.007647	+0.003834	7.66810

Partielle Sonnenfinsternis

1931 September 12



III. Partielle Sonnenfinsternis 1931 September 12 unsichtbar in Berlin

Konjunktion in Rektaszension September 12, 3^h 16^m 58.8 Welt-Zeit

Rektaszension des Mondes	II 17 21.21 ^{h m s}
Stündliche Änderung	2 15.00
Rektaszension der Sonne	II 17 21.21
Stündliche Änderung	8.99
Deklination des Mondes	+6° 19' 56.1"
Stündliche Änderung	—17 52.6
Deklination der Sonne	+4 35 18.3
Stündliche Änderung	— 57.1
Äquatorialhorizontalparallaxe des Mondes .	1° 1' 15.0"
„ der Sonne . .	8.7
Halbmesser des Mondes	16' 40.6"
„ der Sonne	15 53.5

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
Beginn der Finsternis . . .	September 12, 4 ^h 13 ^m .1	140° 27'	+71° 18'
Größte Phase	» 4 40.9	152 39	+61 24
Ende der Finsternis . . .	» 5 9.3	162 29	+51 10

Größe der Finsternis in Einheiten des Sonnendurchmessers = 0.047

Elemente der partiellen Sonnenfinsternis 1931 September 12

Welt-Zeit	x	y	$\log \sin d$	$\log \cos d$	μ	$l^{(a)}$
4 ^h 10 ^m	+0.45283	+1.46720	8.90141	9.99862	243° 20.3	+0.53289
20	0.53823	1.42098	8.90117	9.99862	245 50.3	0.53289
30	0.62363	1.37476	8.90093	9.99862	248 20.4	0.53288
40	0.70902	1.32853	8.90069	9.99862	250 50.4	0.53288
50	0.79442	1.28230	8.90045	9.99862	253 20.5	0.53287
5 0	+0.87981	+1.23606	8.90021	9.99862	255 50.5	+0.53287
10	+0.96519	+1.18981	8.89997	9.99863	258 20.6	+0.53286

Welt-Zeit	x'	y'	$\log \tan f^{(a)}$
4 ^h 0 ^m	+0.008541	—0.004621	7.66702
5 0	0.008539	0.004624	7.66702
6 0	+0.008537	—0.004626	7.66703

Die Finsternis ist sichtbar in Alaska und in der Ostspitze von Asien.

IV. Totale Mondfinsternis 1931 September 26
sichtbar in Berlin

Opposition in Rektaszension . . September 26, 19^h 30^m 0.9 Welt-Zeit

Rektaszension des Mondes 0^h 10^m 3.28

Stündliche Änderung 1 43.89

Rektaszension der Sonne 12 10 3.28

Stündliche Änderung 9.00

Deklination des Mondes +0° 48' 42.9

Stündliche Änderung +14 13.6

Deklination der Sonne -1 5 24.1

Stündliche Änderung - 58.5

Äquatorialhorizontalparallaxe des Mondes 53' 58.4

» der Sonne 8.8

Halbmesser des Mondes 14' 41.7

» der Sonne 15 57.4

Eintritt des Mondes in den Halbschatten Sept. 26, 16^h 40^m Welt-Zeit

Eintritt des Mondes in den Kernschatten » 17 54.2 »

Anfang der totalen Verfinsterung . . . » 19 5.5 »

Mitte der Verfinsterung » 19 48.0 »

Ende der totalen Verfinsterung . . . » 20 30.5 »

Austritt des Mondes aus dem Kernschatten » 21 41.8 »

Austritt des Mondes aus dem Halbschatten » 22 55.3 »

Der Mond steht zu den Zeiten der ersten und zweiten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

271° 19' westliche Länge von Greenwich, 0° 26' nördliche Breite

326° 42' » » » » , 1° 20' » »

Positionswinkel des Eintritts = 45°

» » Austritts = 257°

Größe der Finsternis in Einheiten des Monddurchmessers = 1.326

Der Anfang der Finsternis ist sichtbar in den westlichen Teilen des Stillen Ozeans, in Asien, in Australien, im Indischen Ozean, in Europa außer seiner westlichsten Teile und in Afrika mit Ausnahme der nordwestlichen Teile. Das Ende ist sichtbar in Asien mit Ausnahme der nordöstlichen Teile, im Indischen Ozean, in Europa, in Afrika, im Atlantischen Ozean und in den östlichen Teilen von Südamerika.

V. Partielle Sonnenfinsternis 1931 Oktober 11 unsichtbar in Berlin

Konjunktion in Rektaszension . . Oktober 11, 13^h 53^m 19.^s Welt-Zeit

Rektaszension des Mondes	13 ^h 3 ^m 43. ^s 73
Stündliche Änderung	2 16.43
Rektaszension der Sonne	13 3 43.73
Stündliche Änderung	9.21
Deklination des Mondes	—8° 0' 59".8
Stündliche Änderung	—17 42.3
Deklination der Sonne	—6 47 26.6
Stündliche Änderung	— 56.8
Äquatorialhorizontalparallaxe des Mondes . .	1" 1' 20.9
» der Sonne	8.8
Halbmesser des Mondes	16' 42.2
» der Sonne	16 1.4

	Welt-Zeit	West. Länge v. Greenwich	Geogr. Breite
Beginn der Finsternis . . . Oktober 11, 11 ^h 1. ^m 0. ^s		80° 24'	—15° 40'
Größte Phase » 12 55.2		119 37	—61 22
Ende der Finsternis » 14 48.9		295 30	—70 46

Größe der Finsternis in Einheiten des Sonnendurchmessers = 0.898

Die Finsternis ist sichtbar in Südamerika mit Ausnahme der nördlichen und nordöstlichen Teile, im südlichen Atlantischen und Stillen Ozean und im südlichen Eismeer.

Elemente der partiellen Sonnenfinsternis 1931 Oktober 11

Welt-Zeit	x	y	$\log \sin d$	$\log \cos d$	μ	$l^{(a)}$
11 ^h 0 ^m	—1.48620	—0.40978	9.06980 _n	9.99698	348° 14.8	+0.53459
10	1.40048	0.45552	9.06996 _n	9.99698	350 44.9	0.53460
20	1.31476	0.50125	9.07012 _n	9.99698	353 14.9	0.53461
30	1.22903	0.54697	9.07028 _n	9.99698	355 45.0	0.53462
40	1.14330	0.59269	9.07044 _n	9.99698	358 15.0	0.53463
50	1.05756	0.63841	9.07061 _n	9.99697	0 45.0	0.53464
12 0	—0.97182	—0.68412	9.07077 _n	9.99697	3 15.1	+0.53465
10	0.88608	0.72983	9.07093 _n	9.99697	5 45.1	0.53466
20	0.80033	0.77553	9.07109 _n	9.99697	8 15.2	0.53467
30	0.71458	0.82123	9.07125 _n	9.99696	10 45.2	0.53467
40	0.62883	0.86692	9.07141 _n	9.99696	13 15.2	0.53468
50	0.54307	0.91261	9.07157 _n	9.99696	15 45.3	0.53468
13 0	—0.45731	—0.95829	9.07173 _n	9.99696	18 15.3	+0.53469
10	0.37155	1.00397	9.07189 _n	9.99695	20 45.4	0.53469
20	0.28579	1.04964	9.07205 _n	9.99695	23 15.4	0.53469
30	0.20003	1.09531	9.07221 _n	9.99695	25 45.4	0.53469
40	0.11426	1.14097	9.07237 _n	9.99695	28 15.5	0.53470
50	—0.02849	1.18662	9.07254 _n	9.99695	30 45.5	0.53470
14 0	+0.05728	—1.23227	9.07270 _n	9.99694	33 15.6	+0.53470
10	0.14305	1.27791	9.07286 _n	9.99694	35 45.6	0.53470
20	0.22883	1.32354	9.07302 _n	9.99694	38 15.6	0.53470
30	0.31460	1.36917	9.07318 _n	9.99694	40 45.7	0.53470
40	0.40037	1.41479	9.07334 _n	9.99693	43 15.7	0.53469
50	+0.48615	—1.46040	9.07350 _n	9.99693	45 45.8	+0.53469

Welt-Zeit	x'	y'	$\log \tan f^{(a)}$
11 ^h 0 ^m	+0.008572	—0.004574	7.67059
12 0	0.008574	0.004571	7.67060
13 0	0.008576	0.004568	7.67060
14 0	0.008577	0.004565	7.67061
15 0	+0.008578	—0.004561	7.67061

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern			Konjunktion in Rektaszension					Grenzen der Sichtbarkeit in geogr. Br.		Alter d. Mondes
Name	Gr.	δ app.	Welt-Zeit	Stundenw. H	Y	x'	y'			

J a n u a r

36 Tauri	^m 5.6	+23° 55.2	^d 1 ^h 16 ^m 37.8	—4 ^h 41.0	+0.1623	0.5644	+0.1530	+54° —20°	^d 12.6
112 B. Aurigae	5.7	+26 53.1	3 5 13.6	+6 28.2	+0.9409	0.5968	+0.0511	+90 +32	14.1
49 Aurigae	5.1	+28 4.8	4 2 42.0	+3 2.1	+0.0633	0.6052	—0.0206	+49 —13	15.0
47 Geminorum	5.6	+26 58.4	4 15 57.6	—8 16.3	+0.5972	0.6051	—0.0658	+89 +11	15.6
c Geminorum	5.5	+25 57.0	5 4 2.0	+3 17.3	+0.5792	0.6016	—0.1055	+86 + 6	16.1
λ Cancri	5.9	+24 14.5	5 17 43.2	—7 35.9	+0.5436	0.5942	—0.1473	+82 0	16.6
ι Leonis	5.2	+10 54.6	8 7 3.6	+3 25.5	+0.4928	0.5460	—0.2663	+75 —16	19.2
σ Leonis	4.2	+ 6 24.4	8 21 36.2	—6 31.6	+1.0348	0.5369	—0.2774	+90 +13	19.8
13 Virginis	5.9	— 0 24.3	10 0 48.1	—4 12.7	+0.2352	0.5263	—0.2828	+57 —33	20.9
31 B. Scorpil	5.4	—24 19.8	14 5 30.9	—2 48.0	+0.8894	0.5512	—0.1596	+66 + 6	25.1
40 B. Scorpil	5.4	—24 38.0	14 7 33.7	—0 49.5	+0.8899	0.5521	—0.1550	+66 + 6	25.2
ζ Piscium	5.3	+ 7 12.7	25 14 26.8	—2 27.5	+0.4514	0.4885	+0.2528	+71 —20	6.8
26 B. Arietis	6.0	+11 57.7	26 15 11.1	—2 24.8	+1.3381	0.5020	+0.2373	+82 +43	7.8
40 Arietis	6.0	+18 0.0	27 16 0.3	—2 20.6	+0.3927	0.5218	+0.2104	+68 —16	8.9
π Arietis	5.2	+17 10.8	27 16 23.0	—1 58.5	+1.3500	0.5222	+0.2099	+74 +52	8.9
45 Arietis	6.0	+18 3.3	27 19 31.4	+1 3.9	+1.0633	0.5250	+0.2055	+90 +23	9.0
104 B. Tauri	5.5	+23 12.8	28 19 37.6	+0 21.7	+0.0599	0.5492	+0.1640	+48 —27	10.0
33 Tauri	6.0	+22 58.8	28 23 26.4	+4 2.5	+0.9148	0.5531	+0.1560	+90 +19	10.2
36 Tauri	5.6	+23 55.2	29 2 34.5	+7 3.8	+0.4046	0.5564	+0.1492	+70 — 8	10.3
112 B. Aurigae	5.7	+26 53.1	30 15 53.9	—5 3.3	+1.1020	0.5907	+0.0483	+90 +43	11.9
406 B. Tauri	5.6	+27 57.1	30 21 7.9	—0 2.1	+0.2217	0.5942	+0.0317	+58 — 6	12.1
136 Tauri	4.6	+27 36.0	30 22 1.6	+0 49.3	+0.6063	0.5948	+0.0288	+90 +14	12.1

F e b r u a r

47 Geminorum	^m 5.6	+26° 58.4	^d 1 ^h 2 ^m 56.0	+4 ^h 30.3	+0.6622	0.6035	—0.0683	+90° +14°	^d 13.3
c Geminorum	5.5	+25 57.1	1 14 59.6	—7 56.9	+0.6097	0.6019	—0.1084	+89 + 8	13.8
λ Cancri	5.9	+24 14.5	2 4 35.1	+5 4.3	+0.5342	0.5966	—0.1507	+81 0	14.4
37 Leonis	5.5	+14 4.3	4 2 38.8	+1 19.0	+0.8937	0.5650	—0.2556	+90 + 8	16.3
σ Leonis	4.2	+ 6 24.4	5 6 37.5	+4 17.7	+0.8044	0.5468	—0.2847	+90 — 3	17.5
β Virginis	3.8	+ 2 9.1	5 19 57.6	—6 49.5	+1.1702	0.5405	—0.2897	+90 +21	18.0
86 Virginis	5.6	—12 5.0	8 1 32.3	—3 1.2	+0.3621	0.5343	—0.2611	+61 —26	20.3
169 B. Librae	6.0	—22 54.9	10 4 6.6	—2 10.0	+0.3032	0.5494	—0.1746	+47 —28	22.4
42 Librae	5.0	—23 35.8	10 5 11.4	—1 7.5	+0.8300	0.5498	—0.1722	+67 + 2	22.4
α Scorp.(Antares)	1.3	—26 16.9	11 2 25.4	—4 39.0	+0.5355	0.5567	—0.1217	+55 —15	23.3
234 B. Sagittarii	5.9	—28 0.2	14 5 11.7	+4 35.4	+0.7502	0.5502	+0.0778	+62 — 2	26.4
40 Arietis	6.0	+17 59.9	23 23 20.0	+6 46.8	+0.6643	0.5168	+0.2085	+90 — 2	6.5
τ Arietis	5.1	+20 54.1	24 15 6.5	—1 56.6	+0.6323	0.5301	+0.1844	+89 0	7.1
63 Arietis	5.2	+20 29.9	24 15 50.1	—1 14.5	+1.1983	0.5307	+0.1831	+90 +37	7.2
65 Arietis	6.0	+20 33.7	24 16 37.3	—0 28.8	+1.2734	0.5314	+0.1818	+84 +45	7.2
γ Tauri	5.3	+25 28.2	25 18 38.0	+0 38.3	+0.0978	0.5552	+0.1286	+50 —21	8.3
49 Aurigae	5.1	+28 4.8	27 23 36.0	+3 32.5	+0.3356	0.5911	—0.0241	+66 + 1	10.5
54 Aurigae	5.8	+28 19.7	28 1 15.0	+5 7.4	+0.0380	0.5916	—0.0295	+47 —15	10.6

M ä r z

c Geminorum	^m 5.5	+25° 57.1	^d 1 ^h 1 ^m 41.3	+4 ^h 33.0	+0.7417	0.5931	—0.1086	+90° +15°	^d 11.6
λ Cancri	5.9	+24 14.5	1 15 34.9	—6 7.7	+0.6378	0.5896	—0.1510	+90 + 5	12.1

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern			Konjunktion in Rektaszension					Grenzen der Sichtbarkeit in geogr. Br.	Alter d. Mondes
Name	Gr.	δ app.	Welt-Zeit	Stundenw. H	Y	x'	y'		

März									
l Leonis	5.2	+10° 54.5	4 3 53.2	+3 51.3	+0.2700	0.5578	-0.2769	+60° -28°	14.7
σ Leonis	4.2	+ 6 24.3	4 17 45.6	-6 45.9	+0.7300	0.5514	-0.2893	+90 - 7	15.2
40 H. Virginis	5.1	-15 58.8	7 21 49.6	-5 18.8	+1.2070	0.5470	-0.2516	+75 +26	18.4
64 G. Librae	5.8	-22 8.9	9 2 23.5	-1 45.6	+1.0189	0.5554	-0.1981	+68 +14	19.6
z Capricorni	4.8	-19 11.0	16 4 58.1	-5 9.4	+0.7104	0.5076	+0.2063	+71 - 7	26.7
ζ Arietis	4.8	+20 47.5	23 18 6.1	+2 56.4	+0.3126	0.5266	+0.1894	+63 -18	4.5
τ Arietis	5.1	+20 54.1	23 21 6.9	+5 51.4	+0.7565	0.5290	+0.1843	+90 + 6	4.6
63 Arietis	5.2	+20 29.9	23 21 50.8	+6 33.7	+1.3262	0.5296	+0.1831	+74 +54	4.6
36 Tauri	5.6	+23 55.2	24 16 56.4	+1 1.0	+0.7841	0.5448	+0.1458	+90 +12	5.4
47 Geminorum	5.6	+26 58.4	27 21 25.8	+2 36.0	+0.9312	0.5827	-0.0681	+90 +29	8.6
λ Cancri	5.9	+24 14.5	29 0 39.1	+4 44.4	+0.7324	0.5780	-0.1487	+90 +10	9.7
37 Leonis	5.5	+14 4.3	31 0 38.2	+2 54.9	+0.9444	0.5573	-0.2554	+90 +10	11.7

April

β Virginis	3.8	+ 2° 9.0	1 18 ^h 5.3	-5 ^m 5.2	+1.0684	0.5450	-0.2951	+90° +14°	13.5
86 Virginis	5.6	-12 5.1	3 21 38.4	-3 18.9	+0.1358	0.5507	-0.2708	+48 -38	15.6
42 Librae	5.0	-23 35.9	5 22 7.8	-4 35.5	+0.5474	0.5684	-0.1783	+60 -15	17.6
A Scorpii	4.6	-25 7.6	6 3 34.5	+0 38.8	+1.1736	0.5700	-0.1644	+65 +29	17.8
31 B. Scorpii	5.4	-24 19.9	6 3 42.0	+0 46.1	+0.3430	0.5701	-0.1641	+47 -26	17.9
3 Scorpii	5.9	-25 2.6	6 4 0.1	+1 3.6	+1.0202	0.5702	-0.1633	+65 +15	17.9
33 Tauri	6.0	+22 58.7	20 19 15.9	+5 14.6	+1.2912	0.5452	+0.1534	+77 +52	2.8
406 B. Tauri	5.6	+27 57.1	22 19 19.2	+3 32.2	+0.5166	0.5741	+0.0290	+80 + 9	4.8
136 Tauri	4.6	+27 36.0	22 20 16.6	+4 27.3	+0.9130	0.5745	+0.0262	+90 +32	4.8
l Leonis	5.2	+10 54.6	27 23 29.6	+3 3.9	+0.2761	0.5418	-0.2697	+60 -27	10.0
α Virg. (Spica)	1.2	-10 48.3	30 22 57.9	+0 8.0	+1.4043	0.5451	-0.2789	+72 +49	13.0

Mai

40 H. Virginis	5.1	-15° 58.9	1 19 ^h 6.2	-4 ^m 25.9	+1.1660	0.5542	-0.2548	+75° +22°	13.8
64 G. Librae	5.8	-22 9.0	2 22 47.2	-1 45.7	+0.9785	0.5687	-0.2025	+68 +11	14.9
234 B. Sagittarii	5.9	-28 0.1	7 2 21.7	-2 2.6	+0.6188	0.5601	+0.0810	+57 -10	19.1
49 Aurigae	5.1	+28 4.8	20 18 36.8	+3 55.8	+0.3030	0.5822	-0.0253	+64 - 1	3.2
ε Geminorum	5.5	+25 57.1	21 21 56.8	+6 11.2	+0.6832	0.5770	-0.1071	+90 +11	4.3
σ Leonis	4.2	+ 6 24.4	25 20 50.0	+1 42.3	+0.5860	0.5307	-0.2784	+81 -14	8.3
γ Virginis	5.6	- 8 37.1	27 23 40.2	+2 53.5	+1.2647	0.5346	-0.2792	+82 +28	10.4
42 Librae	5.0	-23 36.0	30 18 3.9	-5 3.2	+0.6005	0.5711	-0.1767	+62 -12	13.2
A Scorpii	4.6	-25 7.6	30 23 28.9	+0 9.5	+1.2384	0.5740	-0.1631	+65 +37	13.4
31 B. Scorpii	5.4	-24 20.0	30 23 36.4	+0 16.7	+0.4085	0.5741	-0.1628	+51 -22	13.4
3 Scorpii	5.9	-25 2.7	30 23 54.4	+0 33.9	+1.0860	0.5742	-0.1620	+65 +21	13.4
40 B. Scorpii	5.4	-24 38.3	31 1 29.9	+2 5.8	+0.4160	0.5751	-0.1579	+50 -22	13.5

Juni

W Sagittarii(var.)	4.3	-29° 35.2	2 3 22.7	+2 ^m 0.6	+1.2297	0.5823	-0.0106	+61° +43°	15.5
ω Sagittarii	4.8	-26 29.0	4 0 53.5	-2 12.2	+0.4955	0.5549	+0.1167	+52 -17	17.4
A Sagittarii	4.9	-26 23.0	4 2 15.1	-0 53.4	+0.5496	0.5537	+0.1200	+55 -14	17.5
ε Capricorni	4.7	-19 46.5	6 0 15.3	-4 24.2	+1.0615	0.5141	+0.2050	+71 +16	19.4
z Capricorni	4.8	-19 10.8	6 3 4.6	-1 39.9	+0.9966	0.5119	+0.2088	+71 +11	19.5
ζ Piscium	5.3	+ 7 12.8	11 0 35.6	-7 20.9	+1.0028	0.4896	+0.2532	+90 +11	24.4
40 Arietis	6.0	+17 59.9	13 2 2.5	-7 20.5	+0.8460	0.5232	+0.2085	+90 + 8	26.5

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern			Konjunktion in Rektaszension					Grenzen der Sichtbarkeit in geogr. Br.	Alterd. Mondes
Name	Gr.	δ app.	Welt-Zeit	Stundenw. H	Y	x'	y'		
J u n i									
λ Caneri	^m 5.9	+24° 14.6'	^d 18 ^h 18 ^m 55.0	+4 22.8	+0.3812	0.5764	-0.1504	+68° - 9°	^d 2.7
37 Leonis	5.5	+14 4.4	20 20 27.6	+4 7.0	+0.5225	0.5438	-0.2497	+77 -14	4.8
χ Leonis	4.6	+ 7 42.5	21 18 46.2	+1 40.7	+1.1071	0.5326	-0.2729	+90 +18	5.7
234 B. Sagittarii	5.9	-28 0.0	30 20 10.3	-4 38.3	+0.8793	0.5661	+0.0852	+62 + 7	14.7
J u l i									
φ Capricorni	^m 5.3	-20° 56.2'	^d 2 22 ^h 7.0	-4 24.9	+0.4376	0.5255	+0.1920	+57° -21°	^d 16.8
ζ Arietis	4.8	+20 47.5	10 23 26.0	-8 33.3	+0.5383	0.5314	+0.1861	+80 - 5	24.9
τ Arietis	5.1	+20 54.1	11 2 23.4	-5 41.7	+0.9624	0.5341	+0.1810	+90 +19	25.0
Mars	1.6	+ 3 44.4	19 15 22.3	-0 23.9	+0.8387	0.5113	-0.2750	+90 - 1	4.1
α Virginis(Spica)	1.2	-10 48.3	21 19 12.9	+1 45.7	+0.8501	0.5322	-0.2690	+80 0	6.3
64 G. Librae	5.8	-22 9.0	23 21 19.0	+2 9.2	+0.6550	0.5545	-0.1922	+67 - 9	8.4
65 B. Scorpii	5.5	-26 8.8	24 19 10.1	-0 47.8	+1.1416	0.5657	-0.1410	+64 +27	9.3
W Sagittarii(var.)	4.3	-29 35.3	26 18 38.3	-3 8.4	+1.1926	0.5748	-0.0060	+61 +37	11.3
χ Capricorni	5.3	-21 28.2	30 2 20.5	+1 42.9	+0.4643	0.5278	+0.1885	+58 -20	14.6
A u g u s t									
χ Aquarii	^m 5.3	- 8° 5.9'	^d 1 21 ^h 55.0	-4 40.1	+1.2808	0.4863	+0.2557	+82° +30°	^d 17.4
147 B. Piscium	5.9	+ 4 55.8	4 2 23.9	-1 34.1	+0.4741	0.4818	+0.2571	+73 -20	19.6
19 Arietis	5.8	+14 57.7	6 1 4.3	-4 10.5	+0.7887	0.5020	+0.2253	+90 + 2	21.5
23 Tauri	4.3	+23 44.3	7 22 39.6	-8 0.8	+0.1093	0.5393	+0.1567	+51 -24	23.4
η Tauri	2.9	+23 53.8	7 23 11.1	-7 30.3	+0.0210	0.5398	+0.1556	+46 -28	23.5
104 B. Tauri	5.5	+23 12.8	7 23 35.1	-7 7.1	+0.8162	0.5401	+0.1548	+90 +13	23.5
27 Tauri	3.7	+23 50.8	7 23 56.8	-6 46.2	+0.1919	0.5404	+0.1541	+56 -20	23.5
28 Tauri	5.2	+23 55.8	7 23 57.4	-6 45.6	+0.1037	0.5404	+0.1541	+51 -24	23.5
406 B. Tauri	5.6	+27 57.1	10 2 56.2	-5 39.9	+0.5444	0.5812	+0.0222	+83 +12	25.6
136 Tauri	4.6	+27 36.0	10 3 52.2	-4 46.2	+0.9292	0.5817	+0.0194	+90 +33	25.7
γ Virginis	5.6	- 8 37.1	17 18 17.0	+2 52.6	+0.5351	0.5379	-0.2804	+75 -18	3.9
43 B. Librae	5.7	-21 6.6	19 18 51.9	+1 47.1	+1.0035	0.5535	-0.2100	+69 +12	6.0
Δ Scorpii	4.6	-25 7.6	20 18 40.2	+0 43.3	+0.7614	0.5636	-0.1557	+65 - 2	7.0
3 Scorpii	5.9	-25 2.7	20 19 6.4	+1 8.5	+0.6093	0.5638	-0.1546	+61 -11	7.0
τ Scorpii	3.0	-25 55.3	20 20 50.4	+2 48.7	+1.2520	0.5645	-0.1502	+65 +40	7.1
ω Sagittarii	4.8	-26 29.0	24 23 0.8	+1 18.1	+0.5649	0.5492	+0.1215	+56 -13	11.2
Δ Sagittarii	4.9	-26 23.0	25 0 24.1	+2 38.6	+0.6278	0.5483	+0.1247	+61 -10	11.2
z Capricorni	4.8	-19 10.7	27 1 48.0	+2 26.5	+1.3701	0.5126	+0.2144	+67 +52	13.3
50 Aquarii	5.9	-13 52.5	27 23 45.3	-0 14.5	+0.5306	0.4990	+0.2385	+71 -17	14.2
χ Aquarii	5.3	- 8 5.9	29 4 45.5	+3 58.0	+1.3738	0.4864	+0.2573	+80 +41	15.4
20 Piscium	5.6	- 3 8.4	29 22 31.0	-2 44.7	+0.4977	0.4821	+0.2622	+74 -20	16.1
S e p t e m b e r									
χ Tauri	^m 5.3	+25° 28.3'	^d 4 22 ^h 46.0	-6 40.1	+0.6747	0.5472	+0.1198	+90° + 9°	^d 22.1
φ Capricorni	5.3	-20 56.2	22 18 2.0	-3 7.1	+0.4523	0.5190	+0.1945	+59 -21	10.6
ζ Arietis	4.8	+20 47.7	30 21 45.5	-4 50.8	+1.0494	0.5216	+0.1820	+90 +25	18.7
O k t o b e r									
χ Tauri	^m 5.3	+25° 28.3'	^d 2 5 ^h 17.7	+1 39.2	+0.7288	0.5442	+0.1191	+90° +12°	^d 20.0
406 B. Tauri	5.6	+27 57.1	3 19 7.7	-9 53.0	+0.7518	0.5655	+0.0207	+90 +23	21.6
136 Tauri	4.6	+27 36.0	3 20 6.6	-8 56.2	+1.1450	0.5658	+0.0179	+90 +49	21.6
47 Geminorum	5.6	+26 58.3	5 3 55.8	-2 20.0	+0.8771	0.5717	-0.0753	+90 +25	23.0
65 B. Scorpii	5.5	-26 8.8	14 16 22.4	+1 47.5	+0.7870	0.5838	-0.1446	+64 0	3.2
χ Capricorni	5.3	-21 28.2	19 20 42.0	+1 26.7	+0.3894	0.5219	+0.1891	+54 -24	8.4

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern			Konjunktion in Rektaszension				Grenzen der Sichtbarkeit in geogr. Br.	Alterd. Monde
Name	Gr.	δ app.	Welt-Zeit	Stundenw. H	γ	α'	γ'	

O k t o b e r

γ Aquarii	5.3	— 8° 5.9	22 17 4.3	— 4 8.3	+1.3783	0.4837	+0.2565	+79° +42°	11.2
147 B. Piscium	5.9	+ 4 56.0	24 21 42.4	— 0 53.1	+0.6561	0.4837	+0.2591	+87 —11	13.4
19 Arietis	5.8	+14 57.8	26 20 20.7	— 3 31.7	+0.9953	0.5038	+0.2262	+90 +15	15.3
ζ Arietis	4.8	+20 47.8	28 3 33.9	+2 45.0	+0.9950	0.5246	+0.1824	+90 +21	16.6
23 Tauri	4.3	+23 44.4	28 18 27.7	— 6 50.0	+0.2844	0.5351	+0.1547	+62 —15	17.3
η Tauri	2.9	+23 53.9	28 19 0.0	— 6 18.9	+0.1940	0.5355	+0.1536	+56 —20	17.3
104 B. Tauri	5.5	+23 13.0	28 19 24.5	— 5 55.1	+1.0023	0.5358	+0.1528	+90 +25	17.3
27 Tauri	3.7	+23 51.0	28 19 46.8	— 5 33.6	+0.3670	0.5360	+0.1520	+67 —11	17.3
28 Tauri	5.2	+23 56.0	28 19 47.4	— 5 32.9	+0.2774	0.5361	+0.1520	+61 —15	17.3
406 B. Tauri	5.6	+27 57.1	31 0 54.0	— 2 19.3	+0.6655	0.5646	+0.0202	+90 +18	19.5
136 Tauri	4.6	+27 36.0	31 1 53.3	— 1 22.2	+1.0607	0.5649	+0.0174	+90 +42	19.6
49 Aurigae	5.1	+28 4.7	31 19 13.1	— 8 41.3	+0.4149	0.5676	—0.0323	+72 + 4	20.3
54 Aurigae	5.8	+28 19.6	31 21 0.5	— 6 58.1	+0.0886	0.5677	—0.0374	+50 —13	20.4

N o v e m b e r

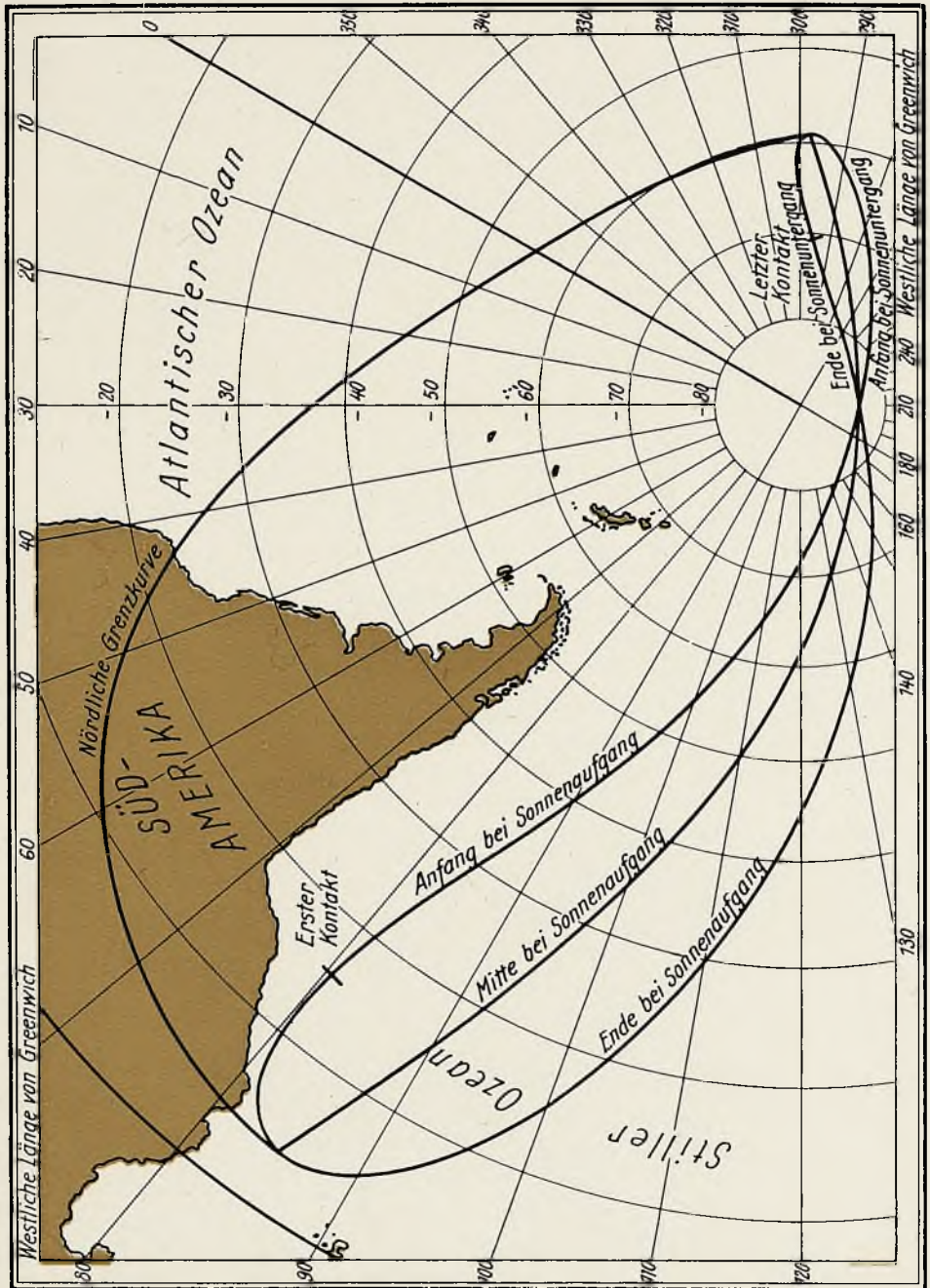
ϵ Geminorum	5.5	+25° 57.0	1 23 44.7	— 5 14.1	+0.5799	0.5642	—0.1125	+86° + 5°	21.5
89 Leonis	5.7	+ 3 26.5	6 6 12.4	— 2 20.5	+1.0111	0.5348	—0.2881	+90 +10	25.8
ω Sagittarii	4.8	—26 29.1	14 19 25.2	+3 5.2	+0.6451	0.5584	+0.1248	+62 — 9	4.8
50 Aquarii	5.9	—13 52.6	17 18 56.2	+0 18.9	+0.6954	0.4966	+0.2376	+78 — 9	7.8
20 Piscium	5.6	— 3 8.4	19 17 48.9	— 2 4.4	+0.6616	0.4799	+0.2603	+84 —11	9.7
19 Arietis	5.8	+14 57.9	23 3 7.9	+5 3.0	+1.0253	0.5050	+0.2250	+90 +17	13.1
23 Tauri	4.3	+23 44.4	25 0 52.3	+1 22.0	+0.2344	0.5389	+0.1540	+59 —18	15.0
η Tauri	2.9	+23 53.9	25 1 24.2	+1 52.8	+0.1435	0.5394	+0.1529	+53 —22	15.1
104 B. Tauri	5.5	+23 13.0	25 1 48.4	+2 16.3	+0.9477	0.5397	+0.1521	+90 +21	15.1
27 Tauri	3.7	+23 51.0	25 2 10.4	+2 37.6	+0.3144	0.5400	+0.1513	+64 —14	15.1
28 Tauri	5.2	+23 56.0	25 2 11.0	+2 38.1	+0.2251	0.5400	+0.1513	+58 —18	15.1
γ Tauri	5.3	+25 28.4	25 17 11.0	— 6 52.8	+0.5788	0.5508	+0.1182	+85 + 4	15.7
406 B. Tauri	5.6	+27 57.1	27 6 40.4	+5 14.6	+0.5284	0.5693	+0.0188	+82 +11	17.3
136 Tauri	4.6	+27 36.0	27 7 39.1	+6 11.1	+0.9210	0.5696	+0.0159	+90 +33	17.3
49 Aurigae	5.1	+28 4.7	28 0 49.5	— 1 17.6	+0.2534	0.5716	—0.0339	+60 — 4	18.0
ϵ Geminorum	5.5	+25 56.9	29 5 14.3	+2 2.9	+0.3836	0.5658	—0.1139	+69 — 5	19.2
λ Caneri	5.9	+24 14.3	29 20 36.7	— 7 8.7	+0.1181	0.5592	—0.1530	+52 —22	19.9
γ Caneri	4.7	+21 42.9	30 6 25.7	+2 19.0	+1.1345	0.5542	—0.1757	+90 +33	20.3

D e z e m b e r

γ Leonis	4.6	+ 7° 42.3	2 23 29.6	— 6 48.5	+0.3895	0.5271	—0.2737	+67° —23°	23.0
234 B. Sagittarii	5.9	—28 0.1	11 16 20.0	+2 17.5	+0.9928	0.5771	+0.0940	+62 +15	2.3
φ Capricorni	5.3	—20 56.3	13 16 43.6	+0 57.5	+0.9111	0.5300	+0.1996	+70 + 6	4.3
ϵ Piscium	4.4	+ 7 31.5	18 20 45.9	+1 32.5	+0.2803	0.4842	+0.2520	+60 —30	9.5
π Piscium	5.6	+11 47.8	19 15 46.9	— 3 57.5	+0.2478	0.4921	+0.2403	+59 —29	10.3
ζ Arietis	4.8	+20 47.8	21 18 1.2	— 3 12.4	+1.0874	0.5274	+0.1793	+90 +28	12.4
γ Tauri	5.3	+25 28.4	23 0 54.9	+2 38.9	+0.6213	0.5527	+0.1162	+90 + 6	13.6
406 B. Tauri	5.6	+27 57.1	24 13 58.0	— 9 40.1	+0.4791	0.5741	+0.0165	+77 + 8	15.2
136 Tauri	4.6	+27 36.0	24 14 55.9	— 8 44.5	+0.8664	0.5744	+0.0136	+90 +30	15.2
49 Aurigae	5.1	+28 4.7	25 7 49.7	+7 30.3	+0.1631	0.5774	—0.0366	+55 —10	15.9
47 Geminorum	5.6	+26 58.3	25 22 25.0	— 2 28.3	+0.4745	0.5762	—0.0797	+76 + 3	16.5
γ Leonis	4.6	+ 7 42.2	30 5 2.1	+0 31.4	+0.0846	0.5270	—0.2742	+49 —38	20.8

Partielle Sonnenfinsternis

1931 Oktober 11



1911. Jan

Ein- und Austritte für Berlin-Babelsberg

Tag	Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1931								
Jan. 9	13 Virginis	5.9 ^m	A.	23 ^h 47.5 ^m	355°	—0.1 ^m	—1.7 ^m	20.9 ^d
23	24 Piscium	6.1	E.	16 50	24	—0.5	+1.0	4.9
26	12 H ¹ Arietis	6.3	E.	16 33.5	22	—0.7	+2.2	7.9
30	406 B. Tauri	5.6	E.	21 0.5	44	—1.5	+1.8	12.1
30	136 Tauri	4.6	E.	22 7.5	126	—1.1	—2.3	12.1
31	415 B. Tauri	6.1	E.	1 28.5	108	—0.1	—1.8	12.2
Febr. 4	37 Leonis	5.5	A.	3 56.5	294	—0.6	—1.7	16.4
8	86 Virginis	5.6	A.	0 39.5	7	+0.7	—2.5	20.2
10	42 Librae	5.0	A.	5 33.5	318	—1.1	—0.5	22.4
März 1	c Geminorum	5.5	E.	2 15.5	84	—0.1	—1.3	11.6
9	64 G. Librae	5.8	A.	2 43.5	271	—1.6	+0.3	19.6
23	ζ Arietis	4.8	E.	18 50	42	—0.8	0.0	4.5
27	47 Geminorum	5.6	E.	22 23.5	180	—	—	8.6
29	λ Cancri	5.9	E.	1 16	70	—0.1	—1.2	9.8
31	37 Leonis	5.5	E.	1 10.5	112	—0.3	—1.7	11.7
April 22	406 B. Tauri	5.6	E.	19 53.5	72	—0.5	—1.1	4.8
22	136 Tauri	4.6	E.	21 4.5	146	+0.7	—2.5	4.9
Juni 23	319 B. Virginis	6.3	E.	20 5.5	47	—0.9	—1.5	7.7
Juli 11	τ Arietis	5.1	A.	1 42.5	242	+0.1	+1.8	25.0
19	Mars	1.6	E.	15 1.5	134	—1.1	—1.1	4.1
19	Mars	1.6	A.	16 14	302	—1.1	—1.3	4.2
21	α Virginis	1.2	E.	19 32.5	70	—1.3	—1.2	6.3
21	α Virginis	1.2	A.	20 15	350	—0.5	—2.0	6.3
Aug. 6	19 Arietis	5.8	A.	0 35.5	269	—0.8	+1.7	21.5
7	104 B. Tauri	5.5	A.	22 58.5	282	+0.2	+1.3	23.5
10	406 B. Tauri	5.6	A.	2 19	297	—0.5	+1.0	25.6
Sept. 4	γ Tauri	5.3	A.	22 4	305	—0.2	+1.0	22.0
14	α Virginis	1.2	E.	9 29	100	—0.7	+1.1	2.2
14	α Virginis	1.2	A.	10 25	329	—0.4	—0.4	2.2
30	ζ Arietis	4.8	A.	20 56	213	+0.2	+2.2	18.7
Okt. 5	4 Cancri	6.2	A.	23 43.5	309	—0.2	+0.6	23.8
23	80 B. Piscium	6.3	E.	20 33	9	—0.3	+2.1	12.4
28	104 B. Tauri	5.5	A.	18 39.5	230	+0.2	+1.9	17.3
31	406 B. Tauri	5.6	A.	0 43.5	214	—0.8	+3.5	19.5
Nov. 1	c Geminorum	5.5	A.	23 11	268	—0.3	+1.6	21.5
17	50 Aquarii	5.9	E.	18 57.5	41	—0.9	+0.4	7.8
19	20 Piscium	5.6	E.	17 25	343	—	—	9.7
25	23 Tauri	4.3	E.	1 20	32	—1.3	+1.3	15.1
25	27 Tauri	3.7	E.	2 49	45	—0.9	0.0	15.1
28	49 Aurigae	5.1	A.	1 11	308	—1.5	—1.6	18.1
29	c Geminorum	5.5	A.	6 3	10	—	—	19.3
Dez. 13	φ Capricorni	5.3	E.	16 45	87	—1.4	—0.9	4.3
15	70 Aquarii	6.1	E.	15 36	63	—1.4	+0.9	6.3
17	98 B. Piscium	6.3	E.	19 3	36	—0.9	+0.9	8.4
18	ε Piscium	4.4	E.	21 31	18	—0.6	+1.4	9.5
22	66 Arietis	6.1	E.	1 17	26	—1.0	+0.9	12.7
23	γ Tauri	5.3	E.	1 25	111	—0.5	—2.2	13.7

Tag	Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1931								
Jan. 9	13 Virginis	^m 5.9	A.	^h 23 ^m 37	26°	^m —	^m —	^d 20.9
23	24 Piscium	6.1	E.	16 55.5	26	—0.5	+0.7	4.9
26	12 H ¹ Arietis	6.3	E.	16 43.5	27	—0.8	+1.8	7.9
27	40 Arietis	6.0	E.	15 43.5	352	—	—	8.9
30	406 B. Tauri	5.6	E.	21 17	28	—1.7	+2.9	12.1
30	136 Tauri	4.6	E.	22 10	114	—0.9	—1.8	12.1
31	415 B. Tauri	6.1	E.	1 25.5	96	—0.1	—1.6	12.3
Febr. 4	37 Leonis	5.5	A.	3 56	304	—0.3	—1.8	16.4
10	42 Librae	5.0	A.	5 40	326	—1.0	—0.8	22.4
März 1	c Geminorum	5.5	E.	2 13	74	0.0	—1.2	11.6
9	64 G. Librae	5.8	A.	2 54.5	281	—1.4	—0.2	19.6
23	ζ Arietis	4.8	E.	18 56	27	—0.7	+0.5	4.5
27	47 Geminorum	5.6	E.	22 9.5	154	+0.4	—2.7	8.6
29	λ Cancri	5.9	E.	1 14	60	—0.1	—1.2	9.8
31	37 Leonis	5.5	E.	1 9	104	—0.3	—1.8	11.7
April 22	406 B. Tauri	5.6	E.	19 55.5	57	—0.5	—0.9	4.8
22	136 Tauri	4.6	E.	20 55	131	+0.5	—2.0	4.9
Juni 23	319 B. Virginis	6.3	E.	20 8	125	—0.8	—1.6	7.7
Juli 11	τ Arietis	5.1	A.	1 46.5	237	0.0	+1.9	25.0
19	Mars	1.6	E.	15 7	119	—1.1	—1.0	4.1
19	Mars	1.6	A.	16 17.5	315	—0.8	—1.6	4.2
21	α Virginis	1.2	E.	19 37.5	63	—1.0	—1.3	6.3
Aug. 6	19 Arietis	5.8	A.	0 46.5	262	—0.9	+1.7	21.5
7	104 B. Tauri	5.5	A.	23 1	278	0.0	+1.5	23.5
10	406 B. Tauri	5.6	A.	2 25.5	292	—0.6	+1.1	25.6
30	44 Piscium	6.1	A.	19 32	273	—0.4	+1.9	16.9
Sept. 4	χ Tauri	5.3	A.	22 9	298	—0.3	+1.3	22.0
14	α Virginis	1.2	E.	9 39	83	—1.1	+1.6	2.2
14	α Virginis	1.2	A.	10 25.5	347	—0.2	—0.9	2.2
30	ζ Arietis	4.8	A.	21 0	207	+0.1	+2.4	18.7
Okt. 5	4 Cancri	6.2	A.	23 47	307	—0.3	+0.7	23.8
23	80 B. Piscium	6.3	E.	20 40.5	17	—0.5	+1.6	12.4
28	104 B. Tauri	5.5	A.	18 42.5	225	+0.2	+2.0	17.3
31	406 B. Tauri	5.6	A.	0 58	218	—1.1	+3.0	19.5
Nov. 1	c Geminorum	5.5	A.	23 18	269	—0.5	+1.6	21.5
17	50 Aquarii	5.9	E.	19 4	47	—0.8	0.0	7.8
19	20 Piscium	5.6	E.	17 27.5	358	0.0	+2.2	9.7
25	23 Tauri	4.3	E.	1 33	18	—1.2	+2.2	15.1
25	27 Tauri	3.7	E.	2 56.5	29	—0.9	+0.6	15.1
28	49 Aurigae	5.1	A.	1 16	320	—1.2	—2.6	18.1
Dez. 15	70 Aquarii	6.1	E.	15 47.5	70	—1.4	+0.4	6.3
17	98 Piscium	6.3	E.	19 10.5	40	—0.8	+0.5	8.4
18	ε Piscium	4.4	E.	21 38	13	—0.4	+1.5	9.5
22	66 Arietis	6.1	E.	1 32	357	—	—	12.7
23	χ Tauri	5.3	E.	1 23.5	98	—0.4	—1.8	13.7

Ein- und Austritte für München

Tag	Stern	Größe	Phase	Welt-Zeit	<i>P</i>	<i>a</i>	<i>b</i>	Alter des Mondes
1931								
Jan. 9	13 Virginis	^m 5.9	A.	^h 23 ^m 52.5	334°	— ^m 0.3	— ^m 0.7	^d 20.9
23	24 Piscium	6.1	E.	16 45	34	—0.8	+0.9	4.9
30	406 B. Tauri	5.6	E.	20 52	61	—1.7	+1.2	12.1
30	136 Tauri	4.6	E.	22 18.5	148	—0.8	—4.1	12.1
31	415 B. Tauri	6.1	E.	1 36	120	0.0	—2.0	12.3
Febr. 8	86 Virginis	5.6	A.	0 46.5	346	—0.1	—1.1	20.2
10	42 Librae	5.0	A.	5 34	312	—1.3	—0.6	22.4
25	γ Tauri	5.3	E.	19 3.5	16	—1.5	+3.9	8.3
März 1	c Geminorum	5.5	E.	2 21.5	90	0.0	—1.3	11.6
9	64 G. Librae	5.8	A.	2 39	263	—2.0	+0.5	19.6
23	ζ Arietis	4.8	E.	18 50	57	—0.8	—0.4	4.5
29	λ Cancri	5.9	E.	1 21	77	—0.1	—1.2	9.8
31	37 Leonis	5.5	E.	1 17.5	117	—0.3	—1.7	11.8
April 22	406 B. Tauri	5.6	E.	19 58.5	83	—0.4	—1.3	4.8
22	136 Tauri	4.6	E.	21 18.5	164	+1.5	—3.7	4.9
Juni 9	24 Piscium	6.1	A.	2 0.5	259	—0.8	+1.8	22.5
21	γ Leonis	4.6	E.	19 28	153	—0.3	—2.1	5.7
Juli 11	τ Arietis	5.1	A.	1 35	239	+0.1	+1.8	25.0
19	Mars	1.6	E.	15 5.5	144	—1.0	—1.5	4.1
19	Mars	1.6	A.	16 17.5	295	—1.4	—1.3	4.2
21	α Virginis	1.2	E.	19 35	75	—1.4	—1.1	6.3
21	α Virginis	1.2	A.	20 23	345	—0.6	—2.1	6.3
Aug. 4	147 B. Piscium	5.9	A.	2 44.5	296	—	—	19.6
6	19 Arietis	5.8	A.	0 27.5	266	—0.8	+1.7	21.5
10	406 B. Tauri	5.6	A.	2 14	290	—0.4	+1.0	25.6
20	A Scorpii	4.6	E.	18 49	46	—1.8	0.0	6.9
Sept. 4	γ Tauri	5.3	A.	21 59.5	300	—0.1	+0.9	22.0
14	α Virginis	1.2	E.	9 24	114	—0.6	+0.6	2.2
14	α Virginis	1.2	A.	10 25	316	—0.6	—0.1	2.2
30	ζ Arietis	4.8	A.	20 46.5	210	+0.3	+2.2	18.7
Okt. 5	4 Cancri	6.2	A.	23 40.5	300	+0.1	+0.7	23.8
28	104 B. Tauri	5.5	A.	18 32	227	+0.4	+1.8	17.3
31	406 B. Tauri	5.6	A.	0 22.5	190	—	—	19.5
Nov. 1	c Geminorum	5.5	A.	23 3.5	258	—0.2	+1.7	21.5
17	50 Aquarii	5.9	E.	18 54.5	47	—1.1	+0.5	7.8
19	20 Piscium	5.6	E.	17 12.5	349	—	—	9.7
25	23 Tauri	4.3	E.	1 14.5	50	—1.4	+0.6	15.1
25	η Tauri	2.9	E.	2 9.5	24	—1.4	+2.0	15.1
25	27 Tauri	3.7	E.	2 48.5	60	—1.0	—0.5	15.1
25	η Tauri	2.9	A.	2 52.5	312	—0.3	—3.8	15.1
28	49 Aurigae	5.1	A.	1 14	292	—1.7	—0.9	18.1
Dez. 13	φ Capricorni	5.3	E.	16 47	94	—1.8	—1.1	4.3
15	70 Aquarii	6.1	E.	15 29.5	66	—1.6	+1.0	6.3
17	98 B. Piscium	6.3	E.	18 57.5	45	—1.2	+0.8	8.4
18	ε Piscium	4.4	E.	21 25.5	33	—0.8	+0.9	9.5
22	66 Arietis	6.1	E.	1 14	45	—0.9	+0.1	12.7
23	γ Tauri	5.3	E.	1 35.5	128	—0.3	—3.0	13.7

Or Welt-Zeit	Mondbewegung			Lage des Mondäquators gegen den Erdäquator			
	Ω	L_{α}	M_{α}	i	Δ	Ω'	$\Delta - \Omega$
1931							
Jan. — 7	20.0363	314.7776	159.97	22.009	201.334	358.593	1.298
+ 3	19.5068	86.5415	290.62	22.003 ⁶	200.772 ⁵⁶²	358.628 ³⁵	1.265 ³³
13	18.9772	218.3055	61.27	21.998 ⁵	200.210 ⁵⁶²	358.664 ³⁶	1.232 ³³
23	18.4477	350.0695	191.92	21.994 ⁴	199.647 ⁵⁶³	358.700 ³⁶	1.200 ³²
Febr. 2	17.9182	121.8335	322.57	21.989 ⁵	199.085 ⁵⁶²	358.736 ³⁶	1.166 ³⁴
12	17.3886	253.5974	93.22	21.984 ⁴	198.522 ⁵⁶³	358.772 ³⁶	1.133 ³³
22	16.8591	25.3614	223.87	21.980 ⁴	197.959 ⁵⁶³	358.808 ³⁶	1.100 ³³
März 4	16.3296	157.1254	354.52	21.976 ⁴	197.396 ⁵⁶³	358.844 ³⁶	1.067 ³⁴
14	15.8000	288.8893	125.17	21.971 ⁵	196.833 ⁵⁶³	358.880 ³⁷	1.033 ³³
24	15.2705	60.6533	255.82	21.967 ⁴	196.270 ⁵⁶³	358.917 ³⁶	1.000 ³⁴
April 3	14.7409	192.4173	26.47	21.963 ³	195.707 ⁵⁶⁴	358.953 ³⁷	0.966 ³⁴
13	14.2114	324.1812	157.12	21.960 ⁴	195.143 ⁵⁶³	358.990 ³⁶	0.932 ³⁴
23	13.6819	95.9452	287.77	21.956 ⁴	194.580 ⁵⁶⁴	359.026 ³⁷	0.898 ³⁴
Mai 3	13.1523	227.7092	58.42	21.952 ³	194.016 ⁵⁶³	359.063 ³⁷	0.864 ³⁴
13	12.6228	359.4731	189.07	21.949 ³	193.453 ⁵⁶⁴	359.100 ³⁷	0.830 ³⁴
23	12.0932	131.2371	319.72	21.946 ³	192.889 ⁵⁶⁴	359.137 ³⁷	0.796 ³⁴
Juni 2	11.5637	263.0011	90.37	21.943 ³	192.325 ⁵⁶⁴	359.174 ³⁸	0.762 ³⁵
12	11.0342	34.7650	221.02	21.940 ³	191.761 ⁵⁶⁴	359.212 ³⁷	0.727 ³⁴
22	10.5046	166.5290	351.67	21.937 ³	191.197 ⁵⁶⁴	359.249 ³⁷	0.693 ³⁵
Juli 2	9.9751	298.2930	122.32	21.934 ²	190.633 ⁵⁶⁴	359.286 ³⁸	0.658 ³⁴
12	9.4456	70.0569	252.97	21.932 ³	190.069 ⁵⁶⁴	359.324 ³⁸	0.624 ³⁵
22	8.9160	201.8209	23.62	21.929 ²	189.505 ⁵⁶⁴	359.362 ³⁷	0.589 ³⁵
Aug. 1	8.3865	333.5849	154.27	21.927 ²	188.941 ⁵⁶⁴	359.399 ³⁸	0.554 ³⁴
11	7.8569	105.3488	284.92	21.925 ²	188.377 ⁵⁶⁵	359.437 ³⁷	0.520 ³⁵
21	7.3274	237.1128	55.57	21.923 ²	187.812 ⁵⁶⁴	359.474 ³⁸	0.485 ³⁵
31	6.7978	8.8768	186.22	21.921 ²	187.248 ⁵⁶⁴	359.512 ³⁸	0.450 ³⁵
Sept. 10	6.2683	140.6407	316.87	21.919 ¹	186.684 ⁵⁶⁵	359.550 ³⁸	0.415 ³⁵
20	5.7388	272.4047	87.52	21.918 ²	186.119 ⁵⁶⁴	359.588 ³⁸	0.380 ³⁵
30	5.2092	44.1687	218.17	21.916 ¹	185.555 ⁵⁶⁵	359.626 ³⁸	0.345 ³⁵
Okt. 10	4.6797	175.9326	348.82	21.915 ¹	184.990 ⁵⁶⁴	359.664 ³⁸	0.310 ³⁵
20	4.1502	307.6966	119.47	21.914 ¹	184.426 ⁵⁶⁵	359.702 ³⁸	0.275 ³⁵
30	3.6206	79.4606	250.12	21.913 ¹	183.861 ⁵⁶⁵	359.740 ³⁸	0.240 ³⁵
Nov. 9	3.0911	211.2245	20.77	21.912 ¹	183.296 ⁵⁶⁴	359.778 ³⁸	0.205 ³⁵
19	2.5615	342.9885	151.42	21.911 ¹	182.732 ⁵⁶⁵	359.816 ³⁸	0.170 ³⁵
29	2.0320	114.7525	282.07	21.910 ⁰	182.167 ⁵⁶⁵	359.854 ³⁸	0.135 ³⁵
Dez. 9	1.5025	246.5164	52.72	21.910 ⁰	181.602 ⁵⁶⁴	359.892 ³⁸	0.100 ³⁵
19	0.9729	18.2804	183.36	21.910 ¹	181.038 ⁵⁶⁵	359.930 ³⁸	0.065 ³⁵
29	0.4434	150.0444	314.01	21.909 ⁰	180.473 ⁵⁶⁵	359.968 ³⁸	0.030 ³⁶
39	359.9138	281.8083	84.66	21.909	179.908	0.006	359.994

Tag	O ^h Welt-Zeit		
	$\alpha_{\zeta} - \alpha_k$	$\delta_{\zeta} - \delta_k$	$\log \sin p_k$
1931			
Jan. -1	- 0.14 +1.24	+ 38.5 -18.3	8.21092 +585
0	+ 1.10 +0.74 -0.50	+ 20.2 -21.1 - 2.8	8.21677 +646 + 61
+1	+ 1.84 -0.02 -0.76	- 0.9 -22.1 - 1.0	8.22323 +659 + 13
2	+ 1.82 -0.96 -0.94	- 23.0 -19.0 + 3.1	8.22982 +617 - 42
3	+ 0.86 -1.84 -0.88	- 42.0 -10.9 + 8.1	8.23599 +521 - 96
4	- 0.98 -2.33 -0.49	- 52.9 + 1.6 +12.5	8.24120 +378 -143
5	- 3.31 -2.23 +0.10	- 51.3 +14.9 +13.3	8.24498 +203 -175
6	- 5.54 -1.71 +0.52	- 36.4 +25.4 +10.5	8.24701 + 21 -182
7	- 7.25 -1.12 +0.59	- 11.0 +31.0 + 5.6	8.24722 -150 -171
8	- 8.37 -0.63 +0.49	+ 20.0 +32.3 + 1.3	8.24572 -286 -136
9	- 9.00 -0.34 +0.29	+ 52.3 +30.2 - 2.1	8.24286 -385 - 99
10	- 9.34 -0.23 +0.11	+ 82.5 +26.1 - 4.1	8.23901 -441 - 56
11	- 9.57 -0.26 -0.03	+108.6 +20.7 - 5.4	8.23460 -463 - 22
12	- 9.83 -0.39 -0.13	+129.3 +14.8 - 5.9	8.22997 -461 + 2
13	-10.22	+144.1	8.22536
Jan. 27	+ 1.31 +1.29	+ 24.5 -18.3	8.20984 +589
28	+ 2.60 +0.73 -0.56	+ 6.2 -20.6 - 2.3	8.21573 +676 + 87
29	+ 3.33 -0.11 -0.84	- 14.4 -20.7 - 0.1	8.22249 +723 + 47
30	+ 3.22 -1.12 -1.01	- 35.1 -16.5 + 4.2	8.22972 +716 - 7
31	+ 2.10 -2.02 -0.90	- 51.6 - 6.7 + 9.8	8.23688 +647 - 69
Febr. 1	+ 0.08 -2.47 -0.45	- 58.3 + 7.0 +13.7	8.24335 +514 -133
2	- 2.39 -2.35 +0.12	- 51.3 +21.2 +14.2	8.24849 +323 -191
3	- 4.74 -1.90 +0.45	- 30.1 +32.0 +10.8	8.25172 +100 -223
4	- 6.64 -1.37 +0.53	+ 1.9 +37.2 + 5.2	8.25272 -127 -227
5	- 8.01 -0.99 +0.38	+ 39.1 +37.0 - 0.2	8.25145 -332 -205
6	- 9.00 -0.76 +0.23	+ 76.1 +32.6 - 4.4	8.24813 -488 -156
7	- 9.76 -0.69 +0.07	+108.7 +25.6 - 7.0	8.24325 -587 - 99
8	-10.45 -0.71 -0.02	+134.3 +17.4 - 8.2	8.23738 -630 - 43
9	-11.16 -0.77 -0.06	+151.7 + 9.1 - 8.3	8.23108 -624 + 6
10	-11.93	+160.8	8.22484
Febr. 25	+ 3.24 +0.63	- 11.4 -19.1	8.21438 +627
26	+ 3.87 -0.18 -0.81	- 30.5 -17.7 + 1.4	8.22065 +692 + 65
27	+ 3.69 -1.09 -0.91	- 48.2 -12.2 + 5.5	8.22757 +718 + 26
28	+ 2.60 -1.82 -0.73	- 60.4 - 1.8 +10.4	8.23475 +692 - 26
März 1	+ 0.78 -2.15 -0.33	- 62.2 +11.5 +13.3	8.24167 +598 - 94
2	- 1.37 -2.06 +0.09	- 50.7 +25.0 +13.5	8.24765 +441 -157
3	- 3.43 -1.78 +0.28	- 25.7 +35.2 +10.2	8.25206 +229 -212
4	- 5.21 +0.30	+ 9.5 + 5.3	8.25435 -244

Tag	0 ^h Welt-Zeit		
	$\alpha_{\zeta} - \alpha_k$	$\delta_{\zeta} - \delta_k$	$\log \sin p_k$
1931			
März 4	— 5.21 — 1.48 + 0.30	+ 9.5 + 40.5 + 5.3	8.25435 — 15 — 244
5	— 6.69 — 1.29 + 0.19	+ 50.0 + 39.9 — 0.6	8.25420 — 254 — 239
6	— 7.98 — 1.23 + 0.06	+ 89.9 + 34.5 — 5.4	8.25166 — 462 — 208
7	— 9.21 — 1.27 — 0.04	+ 124.4 + 25.5 — 9.0	8.24704 — 613 — 151
8	— 10.48 — 1.33 — 0.06	+ 149.9 + 15.0 — 10.5	8.24091 — 698 — 85
9	— 11.81 — 1.29 + 0.04	+ 164.9 + 4.3 — 10.7	8.23393 — 721 — 23
10	— 13.10 — 1.09 + 0.20	+ 169.2 — 5.0 — 9.3	8.22672 — 690 + 31
11	— 14.19 — 0.64 + 0.45	+ 164.2 — 11.6 — 6.6	8.21982 — 618 + 72
12	— 14.83	+ 152.6	8.21364
März 27	+ 2.79 — 1.02 — 0.40	— 58.4 — 5.7 + 10.1	8.22584 + 622 — 1
28	+ 1.77 — 1.42 — 0.11	— 64.1 + 4.4 + 11.6	8.23206 + 621 — 52
29	+ 0.35 — 1.53 + 0.07	— 59.7 + 16.0 + 11.1	8.23827 + 569 — 106
30	— 1.18 — 1.46 + 0.12	— 43.7 + 27.1 + 8.5	8.24396 + 463 — 164
31	— 2.64 — 1.34 + 0.06	— 16.6 + 35.6 + 4.5	8.24859 + 299 — 205
April 1	— 3.98 — 1.28 — 0.05	+ 19.0 + 40.1 — 0.6	8.25158 + 94 — 227
2	— 5.26 — 1.33 — 0.16	+ 59.1 + 39.5 — 5.5	8.25252 — 133 — 218
3	— 6.59 — 1.49 — 0.22	+ 98.6 + 34.0 — 9.6	8.25119 — 351 — 180
4	— 8.08 — 1.71 — 0.14	+ 132.6 + 24.4 — 11.9	8.24768 — 531 — 124
5	— 9.79 — 1.85 + 0.09	+ 157.0 + 12.5 — 12.1	8.24237 — 655 — 60
6	— 11.64 — 1.76 + 0.42	+ 169.5 + 0.4 — 10.0	8.23582 — 715 + 1
7	— 13.40 — 1.34 + 0.70	+ 169.9 — 9.6 — 6.4	8.22867 — 714 + 51
8	— 14.74 — 0.64 + 0.82	+ 160.3 — 16.0 — 2.6	8.22153 — 663 + 90
9	— 15.38 + 0.18 + 0.72	+ 144.3 — 18.6 + 0.4	8.21490 — 573 + 113
10	— 15.20 + 0.90	+ 125.7 — 18.2	8.20917 — 460
11	— 14.30	+ 107.5	8.20457
April 25	— 0.10 — 1.00 + 0.08	— 58.3 + 11.7 + 9.1	8.23113 + 466 — 32
26	— 1.10 — 0.92 + 0.10	— 46.6 + 20.8 + 7.9	8.23579 + 434 — 68
27	— 2.02 — 0.82 + 0.02	— 25.8 + 28.7 + 5.5	8.24013 + 366 — 110
28	— 2.84 — 0.80 — 0.10	+ 2.9 + 34.2 + 2.7	8.24379 + 256 — 147
29	— 3.64 — 0.90 — 0.25	+ 37.1 + 36.9 — 1.3	8.24635 + 109 — 174
30	— 4.54 — 1.15 — 0.35	+ 74.0 + 35.6 — 5.6	8.24744 — 65 — 180
Mai 1	— 5.69 — 1.50 — 0.36	+ 109.6 + 30.0 — 9.4	8.24679 — 245 — 168
2	— 7.19 — 1.86 — 0.23	+ 139.6 + 20.6 — 12.0	8.24434 — 413 — 131
3	— 9.05 — 2.09 + 0.14	+ 160.2 + 8.6 — 12.0	8.24021 — 544 — 83
4	— 11.14 — 1.95 + 0.57	+ 168.8 — 3.4 — 9.8	8.23477 — 627 — 27
5	— 13.09 — 1.38 + 0.86	+ 165.4 — 13.2 — 5.4	8.22850 — 654 + 23
6	— 14.47 — 0.52 + 0.91	+ 152.2 — 18.6 — 1.4	8.22196 — 631 + 68
7	— 14.99 + 0.39 + 0.69	+ 133.6 — 20.0 + 1.5	8.21565 — 563 + 102
8	— 14.60 + 1.08 + 0.46	+ 113.6 — 18.5 + 2.6	8.21002 — 461 + 123
9	— 13.52 + 1.54 + 0.24	+ 95.1 — 15.9 + 2.5	8.20541 — 338 + 133
10	— 11.98 + 1.78	+ 79.2 — 13.4	8.20203 — 205
11	— 10.20	+ 65.8	8.19998

Tag		0 ^h Welt-Zeit			
		$\alpha_{\alpha} - \alpha_k$	$\delta_{\alpha} - \delta_k$	$\log \sin p_k$	
1931					
Mai	24	— 2.98 —0.49 +0.11	— 22.6 +25.5 + 4.4	8.23583 +239 — 55	
	25	— 3.47 —0.38 —0.05	+ 2.9 +29.9 + 2.3	8.23822 +184 — 73	
	26	— 3.85 —0.43 —0.18	+ 32.8 +32.2 — 0.1	8.24006 +111 — 93	
	27	— 4.28 —0.61 —0.34	+ 65.0 +32.1 — 2.9	8.24117 + 18 —112	
	28	— 4.89 —0.95 —0.44	+ 97.1 +29.2 — 6.2	8.24135 — 94 —120	
	29	— 5.84 —1.39 —0.41	+126.3 +23.0 — 9.2	8.24041 —214 —118	
	30	— 7.23 —1.80 —0.20	+149.3 +13.8 —11.2	8.23827 —332 —104	
	31	— 9.03 —2.00 +0.23	+163.1 + 2.6 —10.7	8.23495 —436 — 75	
	Juni	1	—11.03 —1.77 +0.67	+165.7 — 8.1 — 3.8	8.23059 —511 — 37
		2	—12.80 —1.10 +0.89	+157.6 —16.2 — 0.2	8.22548 —548 + 5
3		—13.90 —0.21 +0.84	+141.4 —20.0 — 2.1	8.22000 —543 + 46	
4		—14.11 +0.63 +0.61	+121.4 —20.2 + 2.8	8.21457 —497 + 80	
5		—13.48 +1.24 +0.37	+101.2 —18.1 + 1.5	8.20960 —417 +108	
6		—12.24 +1.61 +0.19	+ 83.1 —15.3 + 1.5	8.20543 —309 +127	
7		—10.63 +1.80 +0.07	+ 67.8 —12.9 + 1.5	8.20234 —182 +138	
8		— 8.83 +1.87	+ 54.9 —11.4	8.20052 — 44	
9		— 6.96	+ 43.5	8.20008	
Juni	24	— 5.63 —0.57 —0.35	+ 98.6 +26.6 — 5.1	8.23786 —149 — 58	
	25	— 6.20 —0.92 —0.41	+125.2 +21.5 — 7.8	8.23637 —207 — 61	
	26	— 7.12 —1.33 —0.32	+146.7 +13.7 — 8.6	8.23430 —268 — 59	
	27	— 8.45 —1.65 —0.01	+160.4 + 5.1 —10.1	8.23162 —327 — 53	
	28	—10.10 —1.64 +0.39	+165.5 — 5.0 — 8.4	8.22835 —380 — 40	
	29	—11.74 —1.25 +0.72	+160.5 —13.4 — 5.5	8.22455 —420 — 23	
	30	—12.99 —0.53 +0.81	+147.1 —18.9 — 1.7	8.22035 —443 + 5	
	Juli	1	—13.52 +0.28 +0.67	+128.2 —20.6 + 0.9	8.21592 —438 + 34
		2	—13.24 +0.95 +0.46	+107.6 —19.7 + 2.6	8.21154 —404 + 64
		3	—12.29 +1.41 +0.29	+ 87.9 —17.1 + 2.5	8.20750 —340 + 87
4		—10.88 +1.70 +0.13	+ 70.8 —14.6 + 2.2	8.20410 —253 +113	
5		— 9.18 +1.83 +0.04	+ 56.2 —12.4 + 1.3	8.20157 —140 +127	
6		— 7.35 +1.87 —0.03	+ 43.8 —11.1 + 0.2	8.20017 — 13 +135	
7		— 5.48 +1.84	+ 32.7 —10.9	8.20004 +122	
8		— 3.64	+ 21.8	8.20126	
Juli	23	— 8.16 —1.13 —0.24	+152.2 +12.9 — 8.8	8.23376 —368 — 15	
	24	— 9.29 —1.37 —0.04	+165.1 + 4.1 — 9.0	8.23008 —383 — 4	
	25	—10.66 —1.41 +0.30	+169.2 — 4.9 — 8.0	8.22625 —387 — 1	
	26	—12.07 —1.11 +0.59	+164.3 —12.9 — 5.4	8.22238 —388 + 5	
	27	—13.18 —0.52 +0.71	+151.4 —18.3 — 2.5	8.21850 —383 + 13	
	28	—13.70 +0.19 +0.65	+133.1 —20.8 + 0.4	8.21467 —370 + 22	
	29	—13.51 +0.84 +0.48	+112.3 —20.4 + 1.9	8.21097 —348 + 38	
	30	—12.67 +1.32 +0.30	+ 91.9 —18.5 + 2.4	8.20749 —310 + 52	
	31	—11.35 +1.62	+ 73.4	8.20439 —258 + 77	
	Aug.	1	— 9.73 +0.17	+ 57.3 + 2.4	8.20181

Tag	0 ^h Welt-Zeit								
	$\alpha_a - \alpha_k$			$\delta_a - \delta_k$			$\log \sin p_k$		
1931									
Aug. 1	— 9.73	+1.79	+0.17	+57.3	—13.7	+2.4	8.20181	—181	+77
2	— 7.94	+1.87	+0.08	+43.6	—11.9	+1.8	8.20000	—89	+92
3	— 6.07	+1.88	+0.01	+31.7	—11.0	+0.9	8.19911	+21	+110
4	— 4.19	+1.84	—0.04	+20.7	—10.9	+0.1	8.19932	+143	+122
5	— 2.35	+1.72	—0.12	+ 9.8	—11.7	—0.8	8.20075	+275	+132
6	— 0.63	+1.48	—0.24	— 1.9	—12.8	—1.1	8.20350	+401	+126
7	+ 0.85			—14.7			8.20751		
Aug. 22	—13.27	—1.09	+0.61	+170.7	—14.1		8.22326	—488	
23	—14.36	—0.48	+0.61	+156.6	—19.4	—5.3	8.21838	—445	+43
24	—14.84	+0.25	+0.73	+137.2	—21.7	—2.3	8.21393	—393	+52
25	—14.59	+0.89	+0.64	+115.5	—21.4	+0.3	8.21000	—342	+51
26	—13.70	+1.36	+0.47	+ 94.1	—19.5	+1.9	8.20658	—290	+52
27	—12.34	+1.64	+0.28	+ 74.6	—17.1	+2.4	8.20368	—237	+53
28	—10.70	+1.80	+0.16	+ 57.5	—14.8	+2.3	8.20131	—178	+59
29	— 8.90	+1.87	+0.07	+ 42.7	—12.8	+2.0	8.19953	—111	+67
30	— 7.03	+1.89	+0.02	+ 29.9	—11.5	+1.3	8.19842	— 32	+79
31	— 5.14	+1.87	—0.02	+ 18.4	—10.8	+0.7	8.19810	+ 56	+88
Sept. 1	— 3.27	+1.79	—0.08	+ 7.6	—11.1	—0.3	8.19866	+159	+103
2	— 1.48	+1.66	—0.13	— 3.5	—11.5	—0.4	8.20025	+271	+112
3	+ 0.18	+1.39	—0.27	—15.0	—12.5	—1.0	8.20296	+381	+110
4	+ 1.57	+0.98	—0.41	—27.5	—12.8	—0.3	8.20677	+510	+129
5	+ 2.55			—40.3			8.21187		
Sept. 19	—15.48	—0.73	+0.87	+163.8	—21.3		8.22287	—598	
20	—16.21	+0.14	+0.87	+142.5	—23.8	—2.5	8.21689	—523	+75
21	—16.07	+0.89	+0.75	+118.7	—23.3	+0.5	8.21166	—438	+85
22	—15.18	+1.41	+0.52	+ 95.4	—20.9	+2.4	8.20728	—351	+87
23	—13.77	+1.72	+0.31	+ 74.5	—18.0	+2.9	8.20377	—266	+85
24	—12.05	+1.86	+0.14	+ 56.5	—15.4	+2.6	8.20111	—185	+81
25	—10.19	+1.90	+0.04	+ 41.1	—13.4	+2.0	8.19926	—112	+73
26	— 8.29	+1.90	0.00	+ 27.7	—12.0	+1.4	8.19814	+ 43	+69
27	— 6.39	+1.85	—0.05	+ 15.7	—11.1	+0.9	8.19771	+ 28	+71
28	— 4.54	+1.77	—0.08	+ 4.6	—10.8	+0.3	8.19799	+100	+72
29	— 2.77	+1.66	—0.11	— 6.2	—10.9	—0.1	8.19899	+179	+79
30	— 1.11	+1.47	—0.19	—17.1	—11.2	—0.3	8.20078	+265	+86
Okt. 1	+ 0.36	+1.17	—0.30	—28.3	—11.3	—0.1	8.20343	+356	+91
2	+ 1.53	+0.74	—0.43	—39.6	—10.6	+0.7	8.20699	+450	+94
3	+ 2.27	+0.24	—0.50	—50.2	— 8.3	+2.3	8.21149	+540	+90
4	+ 2.51	—0.28	—0.52	—58.5	— 3.5	+4.8	8.21689	+618	+78
5	+ 2.23			—62.0			8.22307		
Okt. 19	—16.43	+1.29	+0.42	+ 98.8	—23.5	+3.8	8.21156	—491	
20	—15.14	+1.71	+0.19	+ 75.3	—19.7	+3.3	8.20665	—379	+112
21	—13.43	+1.90	+0.19	+ 55.6	—16.4	+3.3	8.20286	—266	+113
22	—11.53	+1.95	+0.05	+ 39.2	—13.8	+2.6	8.20020	—157	+109
23	— 9.58		—0.03	+ 25.4		+1.7	8.19863	+ 96	

Tag	O ^b Welt-Zeit								
	$\alpha_{\odot} - \alpha_k$			$\delta_{\odot} - \delta_k$			$\log \sin p_k$		
1931									
Okt. 23	— 9.58	+1.92	— 0.03	+25.4	— 12.1	+1.7	8.19863	— 61	+ 96
24	— 7.66	+1.85	— 0.07	+13.3	— 11.0	+1.1	8.19802	+ 25	+ 86
25	— 5.81	+1.74	— 0.11	+ 2.3	— 10.7	+0.3	8.19827	+ 98	+ 73
26	— 4.07	+1.59	— 0.15	— 8.4	— 10.5	+0.2	8.19925	+161	+ 63
27	— 2.48	+1.39	— 0.20	—18.9	— 10.6	— 0.1	8.20086	+221	+ 60
28	— 1.09	+1.12	— 0.27	—29.5	— 10.2	+0.4	8.20307	+277	+ 56
29	+ 0.03	+0.77	— 0.35	—39.7	— 9.2	+1.0	8.20584	+333	+ 56
30	+ 0.80	+0.38	— 0.39	—48.9	— 6.8	+2.4	8.20917	+391	+ 58
31	+ 1.18	+0.02	— 0.36	—55.7	— 2.9	+3.9	8.21308	+450	+ 59
Nov. 1	+ 1.20	— 0.25	— 0.27	—58.6	+ 2.8	+5.7	8.21758	+503	+ 53
2	+ 0.95	— 0.38	— 0.13	—55.8	+ 9.6	+6.8	8.22261	+544	+ 41
3	+ 0.57			—46.2			8.22805		
Nov. 18	—12.50	+1.93	+0.01	+38.9	—15.0		8.20330	—274	
19	—10.57	+1.94	+0.06	+23.9	—12.4	+2.6	8.20056	—145	+129
20	— 8.63	+1.88	— 0.06	+11.5	—10.9	+1.5	8.19911	— 22	+123
21	— 6.75	+1.75	— 0.13	+ 0.6	—10.1	+0.8	8.19889	+ 84	+106
22	— 5.00	+1.58	— 0.17	— 9.5	—10.0	+0.1	8.19973	+175	+ 91
23	— 3.42	+1.35	— 0.23	—19.5	—10.1	— 0.1	8.20148	+246	+ 71
24	— 2.07	+1.04	— 0.31	—29.6	— 9.7	+0.4	8.20394	+296	+ 50
25	— 1.03	+0.66	— 0.38	—39.3	— 8.5	+1.2	8.20690	+330	+ 34
26	— 0.37	+0.26	— 0.40	—47.8	— 5.8	+2.7	8.21020	+353	+ 23
27	— 0.11	— 0.08	— 0.34	—53.6	— 1.6	+4.2	8.21373	+367	+ 14
28	— 0.19	— 0.26	— 0.18	—55.2	+ 4.0	+5.6	8.21740	+377	+ 10
29	— 0.45	— 0.28	— 0.02	—51.2	+10.3	+6.3	8.22117	+385	+ 8
30	— 0.73	— 0.19	+0.09	—40.9	+16.6	+6.3	8.22502	+389	+ 4
Dez. 1	— 0.92	— 0.11	+0.08	—24.3	+22.0	+5.4	8.22891	+386	— 3
2	— 1.03			— 2.3			8.23277		
Dez. 18	— 7.27	+1.80		— 0.1	— 9.9		8.19984	+ 2	
19	— 5.47	+1.67	— 0.13	—10.0	— 9.3	+0.6	8.19986	+132	+130
20	— 3.80	+1.44	— 0.23	—19.3	— 9.3	0.0	8.20118	+247	+115
21	— 2.36	+1.13	— 0.31	—28.6	— 9.3	0.0	8.20365	+335	+ 88
22	— 1.23	+0.71	— 0.42	—37.9	— 8.5	+0.8	8.20700	+399	+ 64
23	— 0.52	+0.22	— 0.49	—46.4	— 6.3	+2.2	8.21099	+430	+ 31
24	— 0.30	— 0.23	— 0.45	—52.7	— 1.9	+4.4	8.21529	+433	+ 3
25	— 0.53	— 0.51	— 0.28	—54.6	+ 4.4	+6.3	8.21962	+410	— 23
26	— 1.04	— 0.56	— 0.05	—50.2	+11.5	+7.1	8.22372	+371	— 39
27	— 1.60	— 0.42	+0.14	—38.7	+18.3	+6.8	8.22743	+318	— 53
28	— 2.02	— 0.24	+0.18	—20.4	+23.9	+5.6	8.23061	+261	— 57
29	— 2.26	— 0.10	+0.14	+ 3.5	+27.7	+3.8	8.23322	+208	— 53
30	— 2.36	— 0.08	+0.02	+31.2	+30.1	+2.4	8.23530	+156	— 52
31	— 2.44			+61.3			8.23686		

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT I				TRABANT I				TRABANT I				TRABANT I			
Jan.	2	12 ^h 58.4 ^m	E.	März	28	14 ^h 18.5 ^m	A.	Juni	21	13 ^h 20.9 ^m	A.	Okt.	30	10 ^h 6.8 ^m	E.
	4	7 27.0	E.		30	8 47.3	A.		23	7 49.5	A.	Nov.	1	4 35.0	E.
	6	1 55.7	E.	April	1	3 16.3	A.		25	2 18.2	A.		2	23 3.3	E.
	7	22 40.7	A.		2	21 45.1	A.		26	20 46.8	A.		4	17 31.6	E.
	9	17 9.5	A.		4	16 14.0	A.	Aug.	13	13 20.2	E.		6	11 59.8	E.
	11	11 38.1	A.		6	10 42.9	A.		15	7 48.6	E.		8	6 28.1	E.
	13	6 6.9	A.		8	5 11.8	A.		17	2 17.1	E.		10	0 56.3	E.
	15	0 35.6	A.		9	23 40.6	A.		18	20 45.5	E.		11	19 24.6	E.
	16	19 4.4	A.		11	18 9.6	A.		20	15 13.9	E.		13	13 52.8	E.
	18	13 33.0	A.		13	12 38.4	A.		22	9 42.3	E.		15	8 21.1	E.
	20	8 1.8	A.		15	7 7.3	A.		24	4 10.8	E.		17	2 49.3	E.
	22	2 30.5	A.		17	1 36.2	A.		25	22 39.1	E.		18	21 17.6	E.
	23	20 59.4	A.		18	20 5.1	A.		27	17 7.6	E.		20	15 45.9	E.
	25	15 28.1	A.		20	14 33.9	A.		29	11 35.9	E.		22	10 14.1	E.
	27	9 56.9	A.		22	9 2.8	A.		31	6 4.3	E.		24	4 42.4	E.
	29	4 25.7	A.		24	3 31.6	A.	Sept.	2	0 32.7	E.		25	23 10.7	E.
	30	22 54.5	A.		25	22 0.5	A.		3	19 1.1	E.		27	17 39.0	E.
Febr.	1	17 23.3	A.		27	16 29.3	A.		5	13 29.4	E.		29	12 7.2	E.
	3	11 52.1	A.		29	10 58.2	A.		7	7 57.8	E.	Dez.	1	6 35.5	E.
	5	6 20.9	A.	Mai	1	5 27.0	A.		9	2 26.2	E.		3	1 3.8	E.
	7	0 49.8	A.		2	23 55.9	A.		10	20 54.5	E.		4	19 32.1	E.
	8	19 18.5	A.		4	18 24.7	A.		12	15 22.9	E.		6	14 0.4	E.
	10	13 47.4	A.		6	12 53.6	A.		14	9 51.2	E.		8	8 28.6	E.
	12	8 16.2	A.		8	7 22.3	A.		16	4 19.6	E.		10	2 57.0	E.
	14	2 45.2	A.		10	1 51.2	A.		17	22 47.9	E.		11	21 25.2	E.
	15	21 14.0	A.		11	20 20.0	A.		19	17 16.2	E.		13	15 53.6	E.
	17	15 42.9	A.		13	14 48.8	A.		21	11 44.5	E.		15	10 21.9	E.
	19	10 11.7	A.		15	9 17.6	A.		23	6 12.9	E.		17	4 50.2	E.
	21	4 40.6	A.		17	3 46.4	A.		25	0 41.1	E.		18	23 18.5	E.
	22	23 9.4	A.		18	22 15.1	A.		26	19 9.5	E.		20	17 46.8	E.
	24	17 38.3	A.		20	16 44.0	A.		28	13 37.8	E.		22	12 15.1	E.
	26	12 7.2	A.		22	11 12.7	A.		30	8 6.1	E.		24	6 43.5	E.
	28	6 36.1	A.		24	5 41.5	A.	Okt.	2	2 34.4	E.		26	1 11.8	E.
März	2	1 4.9	A.		26	0 10.2	A.		3	21 2.7	E.		27	19 40.2	E.
	3	19 33.9	A.		27	18 39.0	A.		5	15 31.0	E.		29	14 8.5	E.
	5	14 2.7	A.		29	13 7.7	A.		7	9 59.3	E.		31	8 37.0	E.
	7	8 31.7	A.		31	7 36.5	A.		9	4 27.6	E.				
	9	3 0.5	A.	Juni	2	2 5.2	A.		10	22 55.8	E.				
	10	21 29.5	A.		3	20 34.0	A.		12	17 24.1	E.				
	12	15 58.3	A.		5	15 2.7	A.		14	11 52.4	E.				
	14	10 27.3	A.		7	9 31.5	A.		16	6 20.7	E.				
	16	4 56.1	A.		9	4 0.1	A.		18	0 48.9	E.				
	17	23 25.1	A.		10	22 28.9	A.		19	19 17.2	E.				
	19	17 53.9	A.		12	16 57.5	A.		21	13 45.5	E.				
	21	12 22.9	A.		14	11 26.2	A.		23	8 13.7	E.				
	23	6 51.7	A.		16	5 54.9	A.		25	2 42.0	E.				
	25	1 20.7	A.		18	0 23.6	A.		26	21 10.2	E.				
	26	19 49.5	A.		19	18 52.2	A.		28	15 38.5	E.				
												TRABANT II			
												Jan.	3	5 46.3 ^m	E.
													6	21 49.7	A.
													10	11 7.1	A.
													14	0 24.4	A.
													17	13 41.8	A.
													21	2 59.2	A.
													24	16 16.5	A.
													28	5 33.9	A.
													31	18 51.4	A.
												Febr.	4	8 8.8	A.

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT II			TRABANT II			TRABANT III			TRABANT III		
Febr. 7	21 ^h 26 ^m 3	A.	Sept. 16	3 ^h 10 ^m 6	E.	März 22	16 ^h 26 ^m 1	E.	Nov. 28	15 ^h 27 ^m 4	A.
11	10 43.8	A.	19	16 28.3	E.	22	19 53.9	A.	Dez. 5	15 45.4	E.
15	0 1.3	A.	23	5 47.1	E.	29	20 25.9	E.	5	19 24.9	A.
18	13 18.8	A.	26	19 4.7	E.	29	23 54.3	A.	12	19 42.8	E.
22	2 36.4	A.	30	8 23.3	E.	April 6	0 25.6	E.	12	23 22.3	A.
25	15 53.9	A.	Okt. 3	21 41.0	E.	6	3 54.6	A.	19	23 40.6	E.
März 1	5 11.5	A.	7	10 59.6	E.	13	4 25.5	E.	20	3 20.1	A.
4	18 29.1	A.	11	0 17.3	E.	13	7 55.1	A.	27	3 38.6	E.
8	7 46.8	A.	14	13 35.8	E.	20	8 25.6	E.	27	7 18.2	A.
11	21 4.4	A.	18	2 53.4	E.	20	11 55.7	A.	TRABANT IV		
15	10 22.1	A.	21	16 11.9	E.	27	12 26.4	E.			
18	23 39.8	A.	25	5 29.5	E.	27	15 57.1	A.	Jan. 4	7 ^h 0 ^m 7	E.
22	12 57.5	A.	28	18 47.9	E.	Mai 4	16 26.6	E.	21	1 1.6	E.
26	2 15.3	A.	Nov. 1	8 5.4	E.	4	19 57.9	A.	21	4 4.2	A.
29	15 33.0	A.	4	21 23.7	E.	11	20 26.9	E.	Febr. 6	19 3.3	E.
April 2	4 50.8	A.	8	10 41.2	E.	11	23 58.6	A.	6	22 16.3	A.
5	18 8.6	A.	11	23 59.5	E.	19	0 26.4	E.	23	13 6.6	E.
9	7 26.4	A.	15	13 17.0	E.	19	3 58.6	A.	23	16 29.3	A.
12	20 44.3	A.	19	2 35.2	E.	26	4 25.7	E.	März 12	7 9.5	E.
16	10 2.2	A.	22	15 52.6	E.	26	7 58.3	A.	12	10 41.3	A.
19	23 20.1	A.	26	5 10.7	E.	Juni 2	11 58.2	A.	29	1 13.1	E.
23	12 38.0	A.	29	18 28.1	E.	9	15 58.2	A.	29	4 53.0	A.
27	1 55.9	A.	Dez. 3	7 46.2	E.	16	19 58.9	A.	April 14	19 17.3	E.
30	15 13.9	A.	6	21 3.5	E.	23	23 58.8	A.	14	23 4.9	A.
Mai 4	4 31.9	A.	10	10 21.5	E.	Aug. 13	0 17.2	E.	Mai 1	13 20.6	E.
7	17 49.9	A.	13	23 38.9	E.	20	4 16.0	E.	1	17 15.6	A.
11	7 7.9	A.	17	12 56.8	E.	27	8 14.1	E.	18	7 23.9	E.
14	20 25.9	A.	21	2 14.1	E.	Sept. 3	12 11.9	E.	18	11 25.5	A.
18	9 44.0	A.	24	15 31.9	E.	10	16 9.9	E.	Juni 4	1 27.6	E.
21	23 2.1	A.	28	4 49.2	E.	17	20 8.1	E.	4	5 35.4	A.
25	12 20.3	A.	31	18 7.0	E.	25	0 6.9	E.	20	19 30.1	E.
29	1 38.3	A.	TRABANT III			25	3 45.1	A.	20	23 43.7	A.
Juni 1	14 56.6	A.				Okt. 2	4 5.1	E.	Aug. 26	19 36.9	E.
5	4 14.6	A.	Jan. 2	20 ^h 5 ^m 27	E.	2	7 43.6	A.	27	0 9.2	A.
8	17 32.9	A.	10	3 45.8	A.	9	8 3.2	E.	Sept. 12	13 37.8	E.
12	6 51.0	A.	17	7 46.7	A.	9	11 41.8	A.	12	18 13.9	A.
15	20 9.4	A.	24	11 47.3	A.	16	12 0.7	E.	29	7 37.7	E.
19	9 27.4	A.	31	15 48.3	A.	16	15 39.5	A.	29	12 17.2	A.
22	22 45.9	A.	Febr. 7	19 48.6	A.	23	15 58.0	E.	Okt. 16	1 37.4	E.
26	12 3.9	A.	14	20 24.3	E.	23	19 36.9	A.	16	6 19.8	A.
Aug. 15	3 25.9	E.	14	23 48.8	A.	30	19 55.7	E.	Nov. 1	19 37.1	E.
18	16 44.6	E.	22	0 24.0	E.	30	23 34.7	A.	2	0 22.3	A.
22	6 2.5	E.	22	3 49.3	A.	Nov. 6	23 53.5	E.	18	13 36.2	E.
25	19 21.1	E.	März 1	4 24.1	E.	7	3 32.7	A.	18	18 23.7	A.
29	8 39.0	E.	1	7 50.0	A.	14	3 52.0	E.	Dez. 5	7 35.6	E.
Sept. 1	21 57.7	E.	8	8 25.0	E.	14	7 31.3	A.	5	12 25.0	A.
5	11 15.5	E.	8	11 51.6	A.	21	7 49.9	E.	22	1 35.4	E.
9	0 34.2	E.	15	12 25.4	E.	21	11 29.4	A.	22	6 26.4	A.
12	13 51.9	E.	15	15 52.7	A.	28	11 48.0	E.			

0 ^h Welt-Zeit		α	β	p_a	a	b	U'	B'	P'
1931									
Jan.	1	15.13	13.85	0.00	34.08	+14.33	118.395	+24.751	+12.938
	5	15.13	13.84	0.00	34.07	14.27	118.526	24.729	12.994
	9	15.13	13.84	0.00	34.08	14.22	118.656	24.706	13.049
	13	15.14	13.85	0.00	34.10	14.17	118.787	24.684	13.105
	17	15.15	13.86	0.00	34.13	14.13	118.917	24.661	13.160
	21	15.17	13.87	0.00	34.17	+14.09	119.048	+24.639	+13.215
	25	15.19	13.89	0.00	34.23	14.05	119.178	24.616	13.270
	29	15.22	13.92	0.00	34.30	14.02	119.309	24.594	13.325
Febr.	2	15.26	13.95	-0.01	34.38	14.00	119.439	24.571	13.380
	6	15.30	13.98	0.01	34.47	13.98	119.570	24.548	13.435
	10	15.35	14.02	-0.01	34.58	+13.96	119.700	+24.525	+13.489
	14	15.40	14.07	0.01	34.70	13.95	119.830	24.501	13.544
	18	15.46	14.12	0.01	34.83	13.95	119.960	24.478	13.599
	22	15.52	14.17	0.02	34.97	13.95	120.090	24.455	13.653
	26	15.59	14.23	0.02	35.12	13.96	120.220	24.432	13.708
	2	15.67	14.30	-0.02	35.29	+13.97	120.350	+24.408	+13.763
März	6	15.75	14.37	0.02	35.47	13.99	120.480	24.385	13.817
	10	15.83	14.45	0.03	35.66	14.01	120.610	24.361	13.871
	14	15.92	14.53	0.03	35.86	14.04	120.740	24.337	13.925
	18	16.01	14.61	0.03	36.06	14.08	120.870	24.313	13.979
	22	16.10	14.69	-0.03	36.27	+14.12	120.999	+24.289	+14.033
	26	16.20	14.78	0.04	36.49	14.17	121.129	24.265	14.087
	30	16.30	14.87	0.04	36.72	14.22	121.259	24.240	14.141
	3	16.40	14.96	0.04	36.96	14.28	121.389	24.216	14.195
April	7	16.51	15.06	0.04	37.20	14.34	121.518	24.192	14.249
	11	16.62	15.16	-0.04	37.45	+14.41	121.648	+24.167	+14.303
	15	16.73	15.26	0.04	37.70	14.48	121.777	24.142	14.356
	19	16.84	15.36	0.04	37.95	14.56	121.907	24.117	14.410
	23	16.96	15.47	0.04	38.21	14.65	122.036	24.092	14.463
	27	17.07	15.57	0.04	38.46	14.74	122.166	24.067	14.517
	1	17.19	15.68	-0.04	38.72	+14.84	122.295	+24.042	+14.570
	5	17.30	15.78	0.04	38.98	14.94	122.425	24.016	14.623
Mai	9	17.42	15.88	0.04	39.23	15.04	122.554	23.991	14.676
	13	17.53	15.98	0.03	39.48	15.15	122.684	23.965	14.729
	17	17.63	16.08	0.03	39.72	15.26	122.813	23.939	14.782
	21	17.74	16.18	-0.03	39.95	+15.37	122.942	+23.913	+14.835
	25	17.84	16.27	0.03	40.18	15.48	123.071	23.887	14.888
	29	17.93	16.36	0.02	40.40	15.60	123.200	23.861	14.941
	3	18.02	16.44	0.02	40.60	15.71	123.329	23.835	14.993
	6	18.10	16.52	0.02	40.79	15.82	123.458	23.809	15.046
Juni	10	18.18	16.59	-0.02	40.96	+15.93	123.587	+23.783	+15.098
	14	18.25	16.66	0.01	41.12	16.04	123.716	23.757	15.150
	18	18.31	16.72	0.01	41.26	16.14	123.845	23.730	15.202
	22	18.37	16.77	-0.01	41.38	16.24	123.974	23.703	15.254
	26	18.42	16.81	0.00	41.49	16.33	124.102	23.676	15.306
	30	18.45	16.84	0.00	41.58	16.42	124.231	23.649	15.358
	4	18.48	16.87	0.00	41.64	+16.50	124.360	+23.622	+15.410

O ^h Welt-Zeit		α	β	p_a	a	b	U'	B'	P'
1931									
Juli	4	18.48	16.87	0.00	41.64	+16.50	124.360	+23.622	+15.410
	8	18.50	16.89	0.00	41.68	16.57	124.489	23.595	15.462
	12	18.51	16.90	0.00	41.70	16.63	124.617	23.568	15.514
	16	18.51	16.90	0.00	41.70	16.68	124.746	23.541	15.566
	20	18.50	16.89	0.00	41.67	16.73	124.874	23.514	15.617
	24	18.48	16.87	0.00	41.62	+16.77	125.003	+23.487	+15.668
	28	18.45	16.85	0.00	41.55	16.80	125.131	23.459	15.720
Aug.	1	18.41	16.82	+0.01	41.46	16.82	125.260	23.431	15.771
	5	18.36	16.78	0.01	41.35	16.83	125.388	23.403	15.823
	9	18.30	16.73	0.01	41.22	16.82	125.517	23.375	15.874
	13	18.24	16.67	+0.01	41.08	+16.80	125.645	+23.347	+15.925
	17	18.17	16.60	0.02	40.92	16.77	125.774	23.319	15.976
	21	18.09	16.53	0.02	40.74	16.73	125.902	23.291	16.027
	25	18.00	16.45	0.02	40.55	16.68	126.030	23.263	16.077
Sept.	29	17.91	16.37	0.02	40.34	16.63	126.158	23.234	16.128
	2	17.81	16.28	+0.03	40.12	+16.57	126.286	+23.205	+16.178
	6	17.71	16.19	0.03	39.89	16.50	126.414	23.176	16.229
	10	17.61	16.10	0.03	39.65	16.42	126.542	23.147	16.279
	14	17.50	16.00	0.03	39.41	16.33	126.670	23.118	16.330
	18	17.39	15.90	0.04	39.16	16.23	126.798	23.089	16.380
	22	17.28	15.80	+0.04	38.91	+16.13	126.925	+23.060	+16.430
Okt.	26	17.17	15.70	0.04	38.66	16.03	127.053	23.031	16.480
	30	17.05	15.59	0.04	38.40	15.92	127.181	23.002	16.530
	4	16.94	15.49	0.04	38.14	15.81	127.309	22.973	16.580
	8	16.82	15.38	0.04	37.89	15.69	127.437	22.943	16.630
	12	16.71	15.28	+0.04	37.64	+15.57	127.564	+22.913	+16.680
	16	16.60	15.18	0.04	37.39	15.45	127.692	22.883	16.730
	20	16.50	15.08	0.04	37.15	15.33	127.819	22.853	16.779
Nov.	24	16.39	14.98	0.04	36.91	15.21	127.947	22.823	16.829
	28	16.28	14.88	0.04	36.68	15.08	128.074	22.793	16.878
	1	16.18	14.79	+0.03	36.45	+14.96	128.202	+22.763	+16.928
	5	16.08	14.70	0.03	36.23	14.83	128.329	22.733	16.977
	9	15.99	14.61	0.03	36.02	14.71	128.457	22.703	17.026
	13	15.90	14.53	0.03	35.82	14.58	128.584	22.672	17.075
	17	15.82	14.45	0.03	35.63	14.46	128.711	22.641	17.124
Dez.	21	15.74	14.38	+0.02	35.45	+14.34	128.838	+22.610	+17.173
	25	15.67	14.31	0.02	35.28	14.22	128.965	22.579	17.221
	29	15.60	14.24	0.02	35.12	14.10	129.092	22.548	17.270
	3	15.53	14.18	0.02	34.98	13.99	129.219	22.517	17.319
	7	15.47	14.12	0.01	34.84	13.88	129.346	22.486	17.367
	11	15.41	14.07	+0.01	34.72	+13.77	129.473	+22.455	+17.416
	15	15.36	14.02	0.01	34.61	13.66	129.600	22.424	17.464
	19	15.32	13.98	0.01	34.51	13.55	129.727	22.393	17.513
	23	15.28	13.94	+0.01	34.42	13.45	129.854	22.362	17.561
	27	15.25	13.91	0.00	34.35	13.35	129.980	22.330	17.609
	31	15.22	13.88	0.00	34.29	13.25	130.107	22.298	17.657
	35	15.20	13.86	0.00	34.24	+13.16	130.234	+22.266	+17.704

O ^h Welt-Zeit				O ^h Welt-Zeit			
U				U			
B				B			
P				P			
1931				1931			
Jan.	1	159.962	+24.874	April	3	169.292	+22.724
	3	160.216 ²⁵⁴	24.824 ⁵⁰		5	169.390 ⁹⁸	22.699 ²⁵
	5	160.471 ²⁵⁵	24.774 ⁵⁰		7	169.482 ⁹²	22.675 ²⁴
	7	160.726 ²⁵⁵	24.723 ⁵¹		9	169.567 ⁸⁵	22.653 ²²
	9	160.980 ²⁵⁴	24.671 ⁵²		11	169.646 ⁷⁹	22.633 ²⁰
	11	161.234 ²⁵⁴	+24.619 ⁵²		13	169.719 ⁷³	+22.615 ¹⁸
	13	161.487 ²⁵³	24.567 ⁵²		15	169.785 ⁶⁶	+22.598 ¹⁷
	15	161.739 ²⁵²	24.514 ⁵³		17	169.845 ⁶⁰	22.583 ¹⁵
	17	161.990 ²⁵¹	24.461 ⁵³		19	169.898 ⁵³	22.570 ¹³
	19	162.240 ²⁵⁰	24.408 ⁵³		21	169.944 ⁴⁶	22.559 ¹¹
	21	162.489 ²⁴⁹	+24.355 ⁵³		23	169.983 ³⁹	+22.550 ⁹
	23	162.736 ²⁴⁷	24.301 ⁵⁴		25	170.015 ³²	+22.543 ⁷
	25	162.982 ²⁴⁶	24.247 ⁵⁴		27	170.041 ²⁶	22.538 ⁵
	27	163.226 ²⁴⁴	24.194 ⁵³		29	170.060 ¹⁹	22.535 ³
	29	163.467 ²⁴¹	24.140 ⁵⁴	Mai	1	170.072 ¹²	22.533 ²
	31	163.707 ²⁴⁰	+24.086 ⁵⁴		3	170.077 ⁵	+22.533 ⁰
Febr.	2	163.944 ²³⁷	24.032 ⁵⁴		5	170.076 ¹	+22.535 ²
	4	164.179 ²³⁵	23.979 ⁵³		7	170.068 ⁸	22.539 ⁴
	6	164.411 ²³²	23.926 ⁵³		9	170.054 ¹⁴	22.546 ⁷
	8	164.641 ²³⁰	23.873 ⁵³		11	170.033 ²¹	22.554 ⁸
	10	164.868 ²²⁷	+23.820 ⁵³		13	170.005 ²⁸	+22.564 ¹⁰
	12	165.092 ²²⁴	23.768 ⁵²		15	169.970 ³⁵	+22.564 ¹²
	14	165.312 ²²⁰	23.716 ⁵²		17	169.929 ⁴¹	22.576 ¹³
	16	165.529 ²¹⁷	23.664 ⁵²		19	169.881 ⁴⁸	22.589 ¹⁵
	18	165.743 ²¹⁴	23.613 ⁵¹		21	169.827 ⁵⁴	22.604 ¹⁸
	20	165.953 ²¹⁰	23.562 ⁵¹		23	169.767 ⁶⁰	22.622 ¹⁹
März	22	166.159 ²⁰⁶	+23.562 ⁵⁰		25	169.701 ⁶⁶	+22.641 ²¹
	24	166.361 ²⁰²	23.512 ⁴⁹		27	169.628 ⁷³	22.662 ²³
	26	166.560 ¹⁹⁹	23.463 ⁴⁸		29	169.628 ⁷⁸	22.685 ²⁴
	28	166.755 ¹⁹⁵	23.415 ⁴⁸		31	169.550 ⁸⁴	22.709 ²⁵
	2	166.945 ¹⁹⁰	23.367 ⁴⁷	Juni	2	169.466 ⁸⁹	22.734 ²⁷
	4	167.130 ¹⁸⁵	+23.320 ⁴⁶		4	169.377 ⁹⁵	+22.761 ²⁹
	6	167.310 ¹⁸⁰	23.274 ⁴⁵		6	169.282 ¹⁰⁰	22.790 ²⁹
	8	167.486 ¹⁷⁶	23.229 ⁴⁴		8	169.182 ¹⁰⁵	22.820 ³⁰
	10	167.657 ¹⁷¹	23.185 ⁴³		10	169.077 ¹¹⁰	22.851 ³¹
	12	167.824 ¹⁶⁷	23.142 ⁴²		12	168.967 ¹¹⁵	22.883 ³²
	14	167.985 ¹⁶¹	+23.100 ⁴¹		14	168.852 ¹¹⁹	+22.917 ³⁴
	16	168.141 ¹⁵⁶	23.059 ⁴⁰		16	168.733 ¹²⁴	22.952 ³⁵
	18	168.291 ¹⁵⁰	23.019 ³⁸		18	168.609 ¹²⁸	22.988 ³⁶
	20	168.436 ¹⁴⁵	22.981 ³⁷		20	168.481 ¹³²	23.025 ³⁷
April	22	168.576 ¹⁴⁰	22.944 ³⁶		22	168.349 ¹³⁵	23.063 ³⁸
	24	168.710 ¹³⁴	+22.908 ³⁴		24	168.214 ¹³⁸	+23.102 ³⁹
	26	168.838 ¹²⁸	22.874 ³³		26	168.076 ¹⁴¹	23.141 ³⁹
	28	168.960 ¹²²	22.841 ³²		28	167.935 ¹⁴⁴	23.181 ⁴⁰
	30	169.077 ¹¹⁷	22.809 ³⁰		30	167.791 ¹⁴⁶	23.222 ⁴¹
	1	169.188 ¹¹¹	22.779 ²⁸	Juli	2	167.645 ¹⁴⁸	23.263 ⁴²
	3	169.292 ¹⁰⁴	22.751 ²⁷		4	167.497 ¹⁵⁰	23.305 ⁴²

O ^h Welt-Zeit		U	B	P	O ^h Welt-Zeit		U	B	P
1931					1931				
Juli	2	167.497 ¹⁵⁰	+23.305 ⁴²	+7.134 ³	Okt.	2	163.241 ⁴⁰	+24.488 ⁶	+7.030 ²
	4	167.347 ¹⁵²	23.347 ⁴²	7.131 ³		4	163.281 ⁴⁷	24.482 ⁸	7.032 ¹
	6	167.195 ¹⁵³	23.389 ⁴³	7.128 ³		6	163.328 ⁵⁴	24.474 ⁹	7.033 ²
	8	167.042 ¹⁵⁴	23.432 ⁴³	7.125 ³		8	163.382 ⁶¹	24.465 ¹¹	7.035 ²
	10	166.888 ¹⁵⁵	23.475 ⁴³	7.122 ³		10	163.443 ⁶⁸	24.454 ¹³	7.037 ²
	12	166.733 ¹⁵⁵	+23.518 ⁴²	+7.119 ³		12	163.511 ⁷⁴	+24.441 ¹⁵	+7.039 ²
	14	166.578 ¹⁵⁵	23.560 ⁴²	7.116 ⁴		14	163.585 ⁸¹	24.426 ¹⁶	7.041 ³
	16	166.423 ¹⁵⁵	23.602 ⁴²	7.112 ³		16	163.666 ⁸⁸	24.410 ¹⁸	7.044 ³
	18	166.268 ¹⁵⁴	23.644 ⁴²	7.109 ⁴		18	163.754 ⁹⁴	24.392 ²⁰	7.047 ³
	20	166.114 ¹⁵³	23.686 ⁴¹	7.105 ³		20	163.848 ¹⁰¹	24.372 ²¹	7.050 ³
	22	165.961 ¹⁵²	+23.727 ⁴¹	+7.102 ³		22	163.949 ¹⁰⁷	+24.351 ²²	+7.053 ³
	24	165.809 ¹⁵⁰	23.768 ⁴⁰	7.098 ⁴		24	164.056 ¹¹³	24.329 ²⁴	7.056 ³
	26	165.659 ¹⁴⁸	23.808 ⁴⁰	7.094 ⁴		26	164.169 ¹²⁰	24.305 ²⁶	7.059 ⁴
	28	165.511 ¹⁴⁶	23.848 ³⁹	7.090 ⁴		28	164.289 ¹²⁵	24.279 ²⁷	7.063 ⁴
Aug.	30	165.365 ¹⁴³	23.887 ³⁸	7.086 ³	Nov.	30	164.414 ¹³¹	24.252 ²⁸	7.067 ⁴
	1	165.222 ¹⁴¹	+23.925 ³⁷	+7.083 ⁴		1	164.545 ¹³⁷	+24.224 ³⁰	+7.071 ⁴
	3	165.081 ¹³⁸	23.962 ³⁷	7.079 ³		3	164.682 ¹⁴³	24.194 ³²	7.075 ⁴
	5	164.943 ¹³⁴	23.999 ³⁶	7.076 ⁴		5	164.825 ¹⁴⁸	24.162 ³³	7.079 ⁴
	7	164.809 ¹³¹	24.035 ³⁵	7.072 ³		7	164.973 ¹⁵⁴	24.129 ³⁵	7.083 ⁴
	9	164.678 ¹²⁷	24.070 ³³	7.069 ⁴		9	165.127 ¹⁵⁹	24.094 ³⁶	7.087 ⁴
	11	164.551 ¹²³	+24.103 ³²	+7.065 ³		11	165.286 ¹⁶⁴	+24.058 ³⁸	+7.091 ⁴
	13	164.428 ¹¹⁸	24.135 ³¹	7.062 ³		13	165.450 ¹⁶⁹	24.020 ³⁹	7.095 ⁴
	15	164.310 ¹¹³	24.166 ³⁰	7.059 ³		15	165.619 ¹⁷⁴	23.981 ⁴¹	7.099 ⁵
	17	164.197 ¹⁰⁹	24.196 ²⁹	7.056 ³		17	165.793 ¹⁷⁹	23.940 ⁴²	7.104 ⁴
	19	164.088 ¹⁰⁴	24.225 ²⁸	7.053 ³		19	165.972 ¹⁸³	23.898 ⁴³	7.108 ⁵
	21	163.984 ⁹⁸	+24.253 ²⁶	+7.050 ³		21	166.155 ¹⁸⁸	+23.855 ⁴⁵	+7.113 ⁴
	23	163.886 ⁹³	24.279 ²⁵	7.047 ²		23	166.343 ¹⁹²	23.810 ⁴⁶	7.117 ⁵
	25	163.793 ⁸⁷	24.304 ²⁴	7.045 ²		25	166.535 ¹⁹⁶	23.764 ⁴⁸	7.122 ⁴
27	163.706 ⁸²	24.328 ²²	7.042 ³	27	166.731 ²⁰⁰	23.716 ⁴⁹	7.126 ⁵		
29	163.624 ⁷⁶	24.350 ²¹	7.040 ²	29	166.931 ²⁰⁴	23.667 ⁵⁰	7.131 ⁴		
31	163.548 ⁶⁹	+24.371 ¹⁹	+7.038 ²	Dez.	1	167.135 ²⁰⁷	+23.617 ⁵¹	+7.135 ⁵	
Sept.	2	163.479 ⁶³	24.390 ¹⁷		7.036 ²	3	167.342 ²¹¹	23.566 ⁵²	7.140 ⁴
	4	163.416 ⁵⁷	24.407 ¹⁶		7.034 ²	5	167.553 ²¹⁴	23.514 ⁵⁴	7.144 ⁵
	6	163.359 ⁵⁰	24.423 ¹⁴		7.032 ¹	7	167.767 ²¹⁷	23.460 ⁵⁵	7.149 ⁴
	8	163.309 ⁴⁴	24.437 ¹³		7.031 ¹	9	167.984 ²²⁰	23.405 ⁵⁶	7.153 ⁵
	10	163.265 ³⁷	+24.450 ¹²		+7.030 ¹	11	168.204 ²²³	+23.349 ⁵⁸	+7.158 ⁴
	12	163.228 ³⁰	24.462 ¹⁰		7.029 ¹	13	168.427 ²²⁵	23.291 ⁵⁸	7.162 ⁴
	14	163.198 ²³	24.472 ⁸		7.028 ¹	15	168.652 ²²⁸	23.233 ⁵⁹	7.166 ⁴
	16	163.175 ¹⁶	24.480 ⁷		7.027 ⁰	17	168.880 ²³⁰	23.174 ⁶⁰	7.170 ⁴
	18	163.159 ⁹	24.487 ⁵		7.027 ⁰	19	169.110 ²³²	23.114 ⁶¹	7.174 ⁴
	20	163.150 ³	+24.492 ⁴		+7.027 ⁰	21	169.342 ²³⁴	+23.053 ⁶²	+7.178 ⁴
	22	163.147 ⁵	24.496 ²		7.027 ⁰	23	169.576 ²³⁶	22.991 ⁶³	7.182 ⁴
	24	163.152 ¹²	24.498 ⁰		7.027 ⁰	25	169.812 ²³⁸	22.928 ⁶⁴	7.186 ³
	26	163.164 ¹⁹	24.498 ²		7.027 ¹	27	170.050 ²³⁹	22.864 ⁶⁵	7.189 ⁴
	28	163.183 ²⁵	24.496 ³	7.028 ¹	29	170.289 ²⁴⁰	22.799 ⁶⁵	7.193 ³	
30	163.208 ³³	24.493 ⁵	7.029 ¹	31	170.529 ²⁴²	22.734 ⁶⁶	7.196 ³		
Okt.	2	163.241	+24.488	+7.030	33	170.771	+22.668	+7.199	

O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
MIMAS					MIMAS				
1931					1931				
März 28	180.597	342.35	1.39697	+ 9.67	Juni 14	95.433	179.18	1.44746	+ 10.92
30	224.567	24.32	1.39834	9.69	16	139.403	221.15	1.44824	10.96
April 1	268.537	66.29	1.39972	9.71	18	183.373	263.12	1.44896	10.99
3	312.507	108.26	1.40112	9.73	20	227.344	305.09	1.44963	11.03
5	356.478	150.23	1.40253	9.75	22	271.314	347.06	1.45026	11.06
7	40.448	192.20	1.40395	+ 9.77	24	315.284	29.03	1.45083	+ 11.10
9	84.418	234.17	1.40538	9.79	26	359.254	71.00	1.45135	11.13
11	128.388	276.14	1.40683	9.81	28	43.224	112.97	1.45181	11.16
13	172.359	318.11	1.40828	9.83	30	87.194	154.94	1.45222	11.19
15	216.329	0.08	1.40973	9.86	Juli 2	131.164	196.91	1.45258	11.22
17	260.299	42.05	1.41119	+ 9.89	4	175.134	238.88	1.45288	+ 11.25
19	304.269	84.02	1.41265	9.92	6	219.104	280.85	1.45312	11.28
21	348.240	125.99	1.41411	9.95	8	263.074	322.82	1.45331	11.30
23	32.210	167.96	1.41557	9.98	10	307.044	4.79	1.45344	11.32
25	76.180	209.93	1.41703	10.01	12	351.014	46.76	1.45351	11.34
27	120.150	251.90	1.41848	+ 10.04	14	34.984	88.73	1.45352	+ 11.36
29	164.121	293.87	1.41993	10.07	16	78.954	130.70	1.45348	11.38
Mai 1	208.091	335.84	1.42137	10.10	18	122.924	172.67	1.45338	11.40
3	252.061	17.81	1.42280	10.13	20	166.894	214.64	1.45322	11.41
5	296.031	59.78	1.42422	10.17	22	210.864	256.61	1.45301	11.42
7	340.002	101.75	1.42562	+ 10.21	24	254.833	298.58	1.45273	+ 11.43
9	23.972	143.72	1.42701	10.25	26	298.803	340.55	1.45240	11.44
11	67.942	185.69	1.42839	10.28	28	342.773	22.52	1.45202	11.45
13	111.912	227.66	1.42975	10.32	30	26.743	64.49	1.45158	11.45
15	155.882	269.63	1.43108	10.35	Aug. 1	70.713	106.46	1.45109	11.46
17	199.852	311.60	1.43240	+ 10.39	3	114.682	148.43	1.45054	+ 11.46
19	243.823	353.57	1.43369	10.43	5	158.652	190.40	1.44995	11.46
21	287.793	35.54	1.43495	10.47	7	202.622	232.37	1.44930	11.45
23	331.763	77.51	1.43619	10.51	9	246.592	274.34	1.44860	11.45
25	15.733	119.48	1.43739	10.55	11	290.561	316.31	1.44785	11.45
27	59.703	161.45	1.43857	+ 10.58	13	334.531	358.28	1.44705	+ 11.45
29	103.673	203.42	1.43971	10.62	15	18.501	40.25	1.44621	11.44
31	147.643	245.39	1.44082	10.66	17	62.471	82.22	1.44532	11.43
Juni 2	191.613	287.36	1.44189	10.69	19	106.441	124.19	1.44439	11.42
4	235.583	329.33	1.44292	10.73	21	150.411	166.16	1.44341	11.41
6	279.553	11.30	1.44391	+ 10.77	23	194.381	208.13	1.44240	+ 11.39
8	323.523	53.27	1.44487	10.81	25	238.350	250.10	1.44135	11.37
10	7.493	95.24	1.44578	10.85	27	282.320	292.07	1.44026	11.35
12	51.463	137.21	1.44664	10.89	29	326.290	334.04	1.43913	11.33
14	95.433	179.18	1.44746	+ 10.92	31	10.260	16.01	1.43797	+ 11.31

0 ^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	0 ^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
MIMAS					ENCELADUS				
1931					1931				
Aug. 31	10.260	16.01	1.43797	+11.31	März 28	79.140	115.0	1.50518	+12.41
Sept. 2	54.230	57.98	1.43678	11.29	30	244.603	279.7	1.50655	12.44
4	98.199	99.95	1.43556	11.27	April 1	50.067	84.5	1.50793	12.46
6	142.169	141.92	1.43431	11.25	3	215.531	249.3	1.50933	12.49
8	186.139	183.89	1.43304	11.22	5	20.995	54.1	1.51074	12.51
10	230.109	225.86	1.43174	+11.19	7	186.459	218.9	1.51216	+12.54
12	274.078	267.83	1.43041	11.16	9	351.923	23.7	1.51359	12.57
14	318.048	309.80	1.42907	11.13	11	157.387	188.5	1.51504	12.60
16	2.018	351.77	1.42770	11.10	13	322.850	353.3	1.51649	12.63
18	45.988	33.74	1.42632	11.07	15	128.314	158.0	1.51794	12.66
20	89.957	75.71	1.42493	+11.04	17	293.778	322.8	1.51940	+12.69
22	133.927	117.67	1.42352	11.01	19	99.241	127.6	1.52086	12.73
24	177.897	159.64	1.42210	10.97	21	264.705	292.4	1.52232	12.77
26	221.867	201.61	1.42066	10.93	23	70.169	97.2	1.52378	12.81
28	265.836	243.58	1.41923	10.89	25	235.633	262.0	1.52524	12.85
30	309.806	285.55	1.41778	+10.85	27	41.097	66.8	1.52669	+12.89
Okt. 2	353.776	327.52	1.41633	10.81	29	206.560	231.6	1.52814	12.93
4	37.746	9.49	1.41488	10.77	Mai 1	12.024	36.3	1.52958	12.97
6	81.715	51.46	1.41342	10.73	3	177.488	201.1	1.53101	13.01
8	125.685	93.43	1.41197	10.69	5	342.951	5.9	1.53243	13.05
10	169.655	135.40	1.41052	+10.65	7	148.415	170.7	1.53383	+13.10
12	213.624	177.37	1.40907	10.61	9	313.879	335.5	1.53522	13.15
14	257.594	219.34	1.40762	10.57	11	119.343	140.3	1.53660	13.20
16	301.563	261.31	1.40619	10.53	13	284.806	305.1	1.53796	13.24
18	345.533	303.28	1.40476	10.49	15	90.270	109.9	1.53929	13.29
20	29.503	345.25	1.40334	+10.45	17	255.733	274.6	1.54061	+13.34
22	73.472	27.22	1.40194	10.40	19	61.197	79.4	1.54190	13.38
24	117.442	69.19	1.40055	10.36	21	226.660	244.2	1.54316	13.43
26	161.412	111.16	1.39917	10.32	23	32.124	49.0	1.54440	13.48
28	205.381	153.13	1.39781	10.27	25	197.587	213.8	1.54560	13.53
30	249.351	195.10	1.39646	+10.23	27	3.050	18.6	1.54678	+13.57
Nov. 1	293.320	237.07	1.39513	10.19	29	168.514	183.4	1.54792	13.62
3	337.290	279.04	1.39382	10.15	31	333.977	348.2	1.54903	13.67
5	21.259	321.01	1.39253	10.10	Juni 2	139.440	152.9	1.55010	13.72
7	65.229	2.98	1.39127	10.06	4	304.904	317.7	1.55113	13.77
9	109.198	44.94	1.39003	+10.02	6	110.367	122.5	1.55212	+13.82
11	153.168	86.91	1.38881	9.97	8	275.831	287.3	1.55308	13.87
13	197.137	128.88	1.38761	9.93	10	81.294	92.1	1.55399	13.92
15	241.107	170.85	1.38644	9.89	12	246.757	256.9	1.55485	13.97
17	285.076	212.82	1.38530	+9.85	14	52.221	61.7	1.55567	+14.02

O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
ENCELADUS					ENCELADUS				
1931					1931				
Juni 14	52.221	61.7	1.55567	+14.02	Aug. 31	25.284	8.4	1.54618	+14.51
16	217.684	226.5	1.55645	14.07	Sept. 2	190.747	173.2	1.54499	14.48
18	23.147	31.2	1.55717	14.12	4	356.210	338.0	1.54377	14.45
20	188.611	196.0	1.55784	14.16	6	161.673	142.8	1.54252	14.42
22	354.074	0.8	1.55847	14.20	8	327.135	307.5	1.54125	14.39
24	159.538	165.6	1.55904	+14.24	10	132.598	112.3	1.53995	+14.35
26	325.001	330.4	1.55956	14.28	12	298.061	277.1	1.53862	14.31
28	130.464	135.2	1.56002	14.32	14	103.524	81.9	1.53728	14.27
30	295.927	300.0	1.56043	14.36	16	268.987	246.7	1.53591	14.23
Juli 2	101.391	104.8	1.56079	14.40	18	74.450	51.5	1.53453	14.19
4	266.854	269.5	1.56109	+14.43	20	239.912	216.3	1.53314	+14.15
6	72.317	74.3	1.56133	14.46	22	45.375	21.0	1.53173	14.11
8	237.780	239.1	1.56152	14.49	24	210.838	185.8	1.53031	14.07
10	43.244	43.9	1.56165	14.52	26	16.301	350.6	1.52887	14.02
12	208.707	208.7	1.56172	14.55	28	181.763	155.4	1.52744	13.97
14	14.170	13.5	1.56173	+14.57	30	347.226	320.2	1.52599	+13.92
16	179.633	178.3	1.56169	14.59	Okt. 2	152.689	125.0	1.52454	13.87
18	345.097	343.1	1.56159	14.61	4	318.152	289.8	1.52309	13.82
20	150.560	147.8	1.56143	14.63	6	123.614	94.6	1.52163	13.77
22	316.023	312.6	1.56122	14.65	8	289.077	259.3	1.52018	13.72
24	121.486	117.4	1.56094	+14.67	10	94.540	64.1	1.51873	+13.67
26	286.950	282.2	1.56061	14.68	12	260.003	228.9	1.51728	13.62
28	92.413	87.0	1.56023	14.69	14	65.465	33.7	1.51583	13.57
30	257.876	251.8	1.55979	14.69	16	230.928	198.5	1.51440	13.51
Aug. 1	63.339	56.6	1.55930	14.69	18	36.391	3.3	1.51297	13.46
3	228.802	221.4	1.55875	+14.70	20	201.853	168.1	1.51155	+13.40
5	34.265	26.1	1.55816	14.70	22	7.316	332.9	1.51015	13.35
7	199.728	190.9	1.55751	14.69	24	172.778	137.7	1.50876	13.30
9	5.191	355.7	1.55681	14.69	26	338.241	302.4	1.50738	13.24
11	170.654	160.5	1.55606	14.68	28	143.703	107.2	1.50602	13.19
13	336.117	325.3	1.55526	+14.68	30	309.166	272.0	1.50467	+13.13
15	141.580	130.1	1.55442	14.67	Nov. 1	114.628	76.8	1.50334	13.08
17	307.043	294.9	1.55353	14.66	3	280.091	241.6	1.50203	13.02
19	112.506	99.7	1.55260	14.64	5	85.553	46.4	1.50074	12.97
21	277.969	264.4	1.55162	14.62	7	251.016	211.2	1.49948	12.91
23	83.432	69.2	1.55061	+14.60	9	56.478	15.9	1.49824	+12.86
25	248.895	234.0	1.54956	14.58	11	221.941	180.7	1.49702	12.80
27	54.358	38.8	1.54847	14.56	13	27.403	345.5	1.49582	12.75
29	219.821	203.6	1.54734	14.54	15	192.866	150.3	1.49465	12.69
31	25.284	8.4	1.54618	+14.51	17	358.328	315.1	1.49351	+12.64

O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
TETHYS					TETHYS				
1931					1931				
März 28	325.339		1.59787	+15.37	Juni 14	79.803		1.64836	+17.36
30	346.736		1.59924	15.40	16	101.199		1.64914	17.42
April 1	8.132		1.60062	15.43	18	122.596		1.64986	17.47
3	29.529		1.60202	15.46	20	143.992		1.65053	17.52
5	50.925		1.60343	15.49	22	165.389		1.65116	17.57
7	72.322		1.60485	+15.52	24	186.785		1.65173	+17.62
9	93.718		1.60628	15.56	26	208.182		1.65225	17.67
11	115.115		1.60773	15.60	28	229.578		1.65271	17.72
13	136.511		1.60918	15.64	30	250.975		1.65312	17.77
15	157.908		1.61063	15.68	Juli 2	272.371		1.65348	17.81
17	179.304		1.61209	+15.72	4	293.768		1.65378	+17.85
19	200.701		1.61355	15.76	6	315.164		1.65402	17.89
21	222.097		1.61501	15.81	8	336.561		1.65421	17.93
23	243.494		1.61647	15.86	10	357.957		1.65434	17.97
25	264.890		1.61793	15.91	12	19.354		1.65441	18.01
27	286.287		1.61938	+15.96	14	40.750		1.65442	+18.05
29	307.683		1.62083	16.01	16	62.147		1.65438	18.08
Mai 1	329.080		1.62227	16.06	18	83.543		1.65428	18.11
3	350.476		1.62370	16.11	20	104.940		1.65412	18.13
5	11.873		1.62512	16.16	22	126.336		1.65391	18.15
7	33.269		1.62652	+16.22	24	147.733		1.65363	+18.16
9	54.666		1.62791	16.28	26	169.129		1.65330	18.17
11	76.062		1.62929	16.33	28	190.526		1.65292	18.18
13	97.459		1.63065	16.39	30	211.922		1.65248	18.18
15	118.855		1.63198	16.45	Aug. 1	233.319		1.65199	18.19
17	140.252		1.63330	+16.51	3	254.715		1.65144	+18.19
19	161.648		1.63459	16.57	5	276.112		1.65085	18.19
21	183.045		1.63585	16.63	7	297.508		1.65020	18.19
23	204.441		1.63709	16.69	9	318.905		1.64950	18.18
25	225.838		1.63829	16.75	11	340.301		1.64875	18.18
27	247.234		1.63947	+16.81	13	1.698		1.64795	+18.18
29	268.631		1.64061	16.87	15	23.094		1.64711	18.17
31	290.027		1.64172	16.93	17	44.491		1.64622	18.16
Juni 2	311.424		1.64279	17.00	19	65.887		1.64529	18.14
4	332.820		1.64382	17.06	21	87.284		1.64431	18.12
6	354.217		1.64481	+17.12	23	108.680		1.64330	+18.10
8	15.613		1.64577	17.18	25	130.077		1.64225	18.07
10	37.010		1.64668	17.24	27	151.473		1.64116	18.04
12	58.406		1.64754	17.30	29	172.870		1.64003	18.00
14	79.803		1.64836	+17.36	31	194.266		1.63887	+17.96

O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
TETHYS					DIONE				
1931					1931				
Aug. 31	194.266		1.63887	+17.96	März 28	201.615	301.6	1.70535	+19.66
Sept. 2	215.663		1.63768	17.92	30	104.685	204.5	1.70672	19.70
4	237.059		1.63646	17.88	April 1	7.754	107.4	1.70810	19.74
6	258.456		1.63521	17.84	3	270.824	10.3	1.70950	19.78
8	279.852		1.63394	17.80	5	173.893	273.2	1.71091	19.83
10	301.249		1.63264	+17.76	7	76.963	176.1	1.71233	+19.88
12	322.645		1.63131	17.72	9	340.033	79.0	1.71376	19.93
14	344.042		1.62997	17.67	11	243.103	341.9	1.71521	19.98
16	5.439		1.62860	17.62	13	146.172	244.8	1.71666	20.03
18	26.835		1.62722	17.57	15	49.242	147.7	1.71811	20.08
20	48.232		1.62583	+17.52	17	312.311	50.6	1.71957	+20.14
22	69.628		1.62442	17.47	19	215.381	313.5	1.72103	20.19
24	91.025		1.62300	17.41	21	118.451	216.4	1.72249	20.25
26	112.422		1.62156	17.35	23	21.521	119.3	1.72395	20.31
28	133.818		1.62013	17.29	25	284.591	22.2	1.72541	20.37
30	155.215		1.61868	+17.23	27	187.661	285.1	1.72686	+20.43
Okt. 2	176.611		1.61723	17.16	29	90.730	188.0	1.72831	20.50
4	198.008		1.61578	17.10	Mai 1	353.800	90.9	1.72975	20.57
6	219.404		1.61432	17.04	3	256.869	353.8	1.73118	20.64
8	240.801		1.61287	16.97	5	159.939	256.7	1.73260	20.71
10	262.197		1.61142	+16.91	7	63.008	159.6	1.73400	+20.78
12	283.594		1.60997	16.85	9	326.078	62.5	1.73539	20.85
14	304.990		1.60852	16.78	11	229.148	325.4	1.73677	20.92
16	326.387		1.60709	16.72	13	132.218	228.3	1.73813	20.99
18	347.783		1.60566	16.65	15	35.287	131.2	1.73946	21.06
20	9.180		1.60424	+16.59	17	298.357	34.1	1.74078	+21.14
22	30.576		1.60284	16.52	19	201.427	297.0	1.74207	21.22
24	51.973		1.60145	16.46	21	104.497	199.9	1.74333	21.30
26	73.369		1.60007	16.39	23	7.566	102.8	1.74457	21.38
28	94.766		1.59871	16.33	25	270.636	5.7	1.74577	21.46
30	116.162		1.59736	+16.26	27	173.706	268.6	1.74695	+21.53
Nov. 1	137.559		1.59603	16.19	29	76.776	171.5	1.74809	21.61
3	158.955		1.59472	16.13	31	339.845	74.4	1.74920	21.68
5	180.352		1.59343	16.06	Juni 2	242.915	337.3	1.75027	21.76
7	201.748		1.59217	16.00	4	145.984	240.2	1.75130	21.84
9	223.145		1.59093	+15.93	6	49.054	143.1	1.75229	+21.92
11	244.541		1.58971	15.86	8	312.123	46.0	1.75325	22.00
13	265.938		1.58851	15.79	10	215.193	308.9	1.75416	22.08
15	287.334		1.58734	15.72	12	118.263	211.8	1.75502	22.15
17	308.731		1.58620	+15.65	14	21.333	114.7	1.75584	+22.22

O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
DIONE					DIONE				
1931					1931.				
Juni 14	21.333	114.7	1.75584	+22.22	Aug. 31	201.053	287.8	1.74635	+23.00
16	284.402	17.6	1.75662	22.29	Sept. 2	104.123	190.7	1.74516	22.95
18	187.472	280.5	1.75734	22.36	4	7.192	93.6	1.74394	22.90
20	90.542	183.4	1.75801	22.43	6	270.262	356.5	1.74269	22.85
22	353.612	86.3	1.75864	22.50	8	173.332	259.4	1.74142	22.80
24	256.681	349.2	1.75921	+22.57	10	76.402	162.3	1.74012	+22.75
26	159.751	252.1	1.75973	22.64	12	339.471	65.2	1.73879	22.69
28	62.821	155.0	1.76019	22.70	14	242.541	328.1	1.73745	22.63
30	325.891	57.9	1.76060	22.76	16	145.611	231.0	1.73608	22.56
Juli 2	228.960	320.8	1.76096	22.82	18	48.681	133.9	1.73470	22.49
4	132.030	223.7	1.76126	+22.87	20	311.750	36.8	1.73331	+22.42
6	35.100	126.6	1.76150	22.92	22	214.820	299.7	1.73190	22.35
8	298.170	29.5	1.76169	22.97	24	117.890	202.6	1.73048	22.28
10	201.239	292.4	1.76182	23.02	26	20.960	105.5	1.72904	22.21
12	104.309	195.3	1.76189	23.06	28	284.029	8.4	1.72761	22.14
14	7.379	98.2	1.76190	+23.10	30	187.099	271.3	1.72616	+22.07
16	270.449	1.1	1.76186	23.14	Okt. 2	90.169	174.2	1.72471	21.99
18	173.518	264.0	1.76176	23.17	4	353.239	77.1	1.72326	21.91
20	76.588	166.9	1.76160	23.20	6	256.308	340.0	1.72180	21.83
22	339.658	69.8	1.76139	23.23	8	159.378	242.9	1.72035	21.75
24	242.728	332.7	1.76111	+23.25	10	62.448	145.8	1.71890	+21.67
26	145.797	235.6	1.76078	23.27	12	325.518	48.7	1.71745	21.59
28	48.867	138.5	1.76040	23.29	14	228.587	311.6	1.71600	21.51
30	311.937	41.4	1.75996	23.30	16	131.657	214.5	1.71457	21.42
Aug. 1	215.007	304.3	1.75947	23.31	18	34.727	117.4	1.71314	21.34
3	118.076	207.2	1.75892	+23.31	20	297.797	20.3	1.71172	+21.25
5	21.146	110.1	1.75833	23.31	22	200.867	283.2	1.71032	21.17
7	284.216	13.0	1.75768	23.31	24	103.936	186.1	1.70893	21.08
9	187.286	275.9	1.75698	23.30	26	7.006	89.0	1.70755	20.99
11	90.355	178.8	1.75623	23.29	28	270.076	351.9	1.70619	20.90
13	353.425	81.7	1.75543	+23.28	30	173.146	254.8	1.70484	+20.82
15	256.495	344.6	1.75459	23.26	Nov. 1	76.216	157.7	1.70351	20.73
17	159.565	247.5	1.75370	23.24	3	339.286	60.6	1.70220	20.65
19	62.634	150.4	1.75277	23.22	5	242.356	323.5	1.70091	20.56
21	325.704	53.3	1.75179	23.19	7	145.425	226.4	1.69965	20.48
23	228.774	316.2	1.75078	+23.16	9	48.495	129.3	1.69841	+20.39
25	131.844	219.1	1.74973	23.13	11	311.565	32.2	1.69719	20.30
27	34.913	122.0	1.74864	23.09	13	214.635	295.1	1.69599	20.22
29	297.983	24.9	1.74751	23.05	15	117.704	198.0	1.69482	20.13
31	201.053	287.8	1.74635	+23.00	17	20.774	100.9	1.69368	+20.04

O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
RHEA					RHEA				
1931					1931				
März 28	119.178	294.2	1.85039	+27.48	Juni 14	214.996	30.3	1.90088	+31.03
30	278.558	93.5	1.85176	27.53	16	14.376	189.7	1.90166	31.13
April 1	77.938	252.9	1.85314	27.58	18	173.756	349.1	1.90238	31.23
3	237.318	52.3	1.85454	27.64	20	333.135	148.4	1.90305	31.33
5	36.698	211.7	1.85595	27.70	22	132.515	307.8	1.90368	31.43
7	196.078	11.1	1.85737	+27.76	24	291.895	107.2	1.90425	+31.52
9	355.458	170.5	1.85880	27.83	26	91.275	266.6	1.90477	31.61
11	154.838	329.9	1.86025	27.90	28	250.655	66.0	1.90523	31.70
13	314.218	129.3	1.86170	27.97	30	50.035	225.4	1.90564	31.79
15	113.598	288.6	1.86315	28.04	Juli 2	209.415	24.8	1.90600	31.87
17	272.977	88.0	1.86461	+28.12	4	8.795	184.1	1.90630	+31.95
19	72.357	247.4	1.86607	28.20	6	168.175	343.5	1.90654	32.02
21	231.737	46.8	1.86753	28.28	8	327.555	142.9	1.90673	32.09
23	31.117	206.2	1.86899	28.36	10	126.935	302.3	1.90686	32.15
25	190.497	5.6	1.87045	28.45	12	286.315	101.7	1.90693	32.21
27	349.877	165.0	1.87190	+28.54	14	85.695	261.1	1.90694	+32.26
29	149.257	324.4	1.87335	28.63	16	245.075	60.5	1.90690	32.31
Mai 1	308.637	123.7	1.87479	28.72	18	44.455	219.9	1.90680	32.36
3	108.017	283.1	1.87622	28.81	20	203.835	19.2	1.90664	32.40
5	267.397	82.5	1.87764	28.91	22	3.214	178.6	1.90643	32.44
7	66.777	241.9	1.87904	+29.01	24	162.594	338.0	1.90615	+32.47
9	226.157	41.3	1.88043	29.11	26	321.974	137.4	1.90582	32.50
11	25.537	200.7	1.88181	29.21	28	121.354	296.8	1.90544	32.52
13	184.917	0.1	1.88317	29.31	30	280.734	96.2	1.90500	32.54
15	344.297	159.5	1.88450	29.41	Aug. 1	80.114	255.6	1.90451	32.55
17	143.677	318.8	1.88582	+29.52	3	239.494	55.0	1.90396	+32.56
19	303.056	118.2	1.88711	29.63	5	38.874	214.3	1.90337	32.56
21	102.436	277.6	1.88837	29.74	7	198.254	13.7	1.90272	32.56
23	261.816	77.0	1.88961	29.85	9	357.634	173.1	1.90202	32.55
25	61.196	236.4	1.89081	29.96	11	157.014	332.5	1.90127	32.53
27	220.576	35.8	1.89199	+30.06	13	316.394	131.9	1.90047	+32.51
29	19.956	195.2	1.89313	30.17	15	115.774	291.3	1.89963	32.49
31	179.336	354.6	1.89424	30.28	17	275.154	90.7	1.89874	32.46
Juni 2	338.716	153.9	1.89531	30.39	19	74.534	250.1	1.89781	32.43
4	138.096	313.3	1.89634	30.50	21	233.914	49.4	1.89683	32.39
6	297.476	112.7	1.89733	+30.61	23	33.293	208.8	1.89582	+32.35
8	96.856	272.1	1.89829	30.72	25	192.673	8.2	1.89477	32.30
10	256.236	71.5	1.89920	30.83	27	352.053	167.6	1.89368	32.25
12	55.616	230.9	1.90006	30.93	29	151.433	327.0	1.89255	32.19
14	214.996	30.3	1.90088	+31.03	31	310.813	126.4	1.89139	+32.13

O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	O^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
RHEA					TITAN				
1931					1931				
Aug. 31	310.813	126.4	1.89139	+32.13	März 28	316.56	143.6	2.21554	+63.67
Sept. 2	110.193	285.8	1.89020	32.07	30	1.71	188.8	2.21691	63.79
4	269.573	85.2	1.88898	32.00	April 1	46.87	233.9	2.21829	63.92
6	68.953	244.5	1.88773	31.93	3	92.02	279.1	2.21969	64.05
8	228.333	43.9	1.88646	31.85	5	137.17	324.2	2.22110	64.19
10	27.713	203.3	1.88516	+31.77	7	182.33	9.4	2.22252	+64.34
12	187.093	2.7	1.88383	31.69	9	227.48	54.5	2.22395	64.50
14	346.473	162.1	1.88249	31.60	11	272.64	99.7	2.22540	64.66
16	145.853	321.5	1.88112	31.51	13	317.79	144.8	2.22685	64.83
18	305.233	120.9	1.87974	31.42	15	2.94	190.0	2.22830	65.00
20	104.613	280.3	1.87835	+31.32	17	48.10	235.1	2.22976	+65.18
22	263.993	79.6	1.87694	31.22	19	93.25	280.3	2.23122	65.36
24	63.372	239.0	1.87552	31.12	21	138.40	325.4	2.23268	65.55
26	222.752	38.4	1.87408	31.02	23	183.56	10.6	2.23414	65.75
28	22.132	197.8	1.87265	30.92	25	228.71	55.7	2.23560	65.95
30	181.512	357.2	1.87120	+30.82	27	273.87	100.9	2.23705	+66.15
Okt. 2	340.892	156.6	1.86975	30.71	29	319.02	146.0	2.23850	66.36
4	140.272	316.0	1.86830	30.60	Mai 1	4.17	191.2	2.23994	66.58
6	299.652	115.4	1.86684	30.49	3	49.33	236.3	2.24137	66.80
8	99.032	274.7	1.86539	30.38	5	94.48	281.5	2.24279	67.02
10	258.412	74.1	1.86394	+30.27	7	139.63	326.6	2.24419	+67.25
12	57.792	233.5	1.86249	30.15	9	184.79	11.8	2.24558	67.49
14	217.172	32.9	1.86104	30.03	11	229.94	56.9	2.24696	67.73
16	16.552	192.3	1.85961	29.91	13	275.10	102.1	2.24832	67.97
18	175.932	351.7	1.85818	29.79	15	320.25	147.2	2.24965	68.21
20	335.312	151.1	1.85676	+29.67	17	5.40	192.4	2.25097	+68.46
22	134.692	310.5	1.85536	29.55	19	50.56	237.5	2.25226	68.71
24	294.072	109.8	1.85397	29.43	21	95.71	282.7	2.25352	68.96
26	93.451	269.2	1.85259	29.31	23	140.86	327.8	2.25476	69.21
28	252.831	68.6	1.85123	29.19	25	186.02	13.0	2.25596	69.46
30	52.211	228.0	1.84988	+29.07	27	231.17	58.1	2.25714	+69.71
Nov. 1	211.591	27.4	1.84855	28.95	29	276.33	103.3	2.25828	69.96
3	10.971	186.8	1.84724	28.83	31	321.48	148.4	2.25939	70.21
5	170.351	346.2	1.84595	28.71	Juni 2	6.63	193.6	2.26046	70.47
7	329.731	145.6	1.84469	28.59	4	51.79	238.7	2.26149	70.72
9	129.111	304.9	1.84345	+28.47	6	96.94	283.9	2.26248	+70.97
11	288.491	104.3	1.84223	28.35	8	142.09	329.0	2.26344	71.22
13	87.871	263.7	1.84103	28.23	10	187.25	14.2	2.26435	71.47
15	247.251	63.1	1.83986	28.11	12	232.40	59.3	2.26521	71.71
17	46.631	222.5	1.83872	+27.99	14	277.56	104.5	2.26603	+71.95

Θ^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	Θ^h Welt-Zeit	L	M	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
TITAN					TITAN				
1931					1931				
Juni 14	277.56	104.5	2.26603	+71.95	Aug. 31	238.56	65.4	2.25654	+74.49
16	322.71	149.6	2.26681	72.18	Sept. 2	283.72	110.6	2.25535	74.34
18	7.86	194.8	2.26753	72.41	4	328.87	155.7	2.25413	74.18
20	53.02	239.9	2.26820	72.64	6	14.02	200.9	2.25288	74.01
22	98.17	285.1	2.26883	72.86	8	59.18	246.0	2.25161	73.83
24	143.32	330.2	2.26940	+73.08	10	104.33	291.2	2.25031	+73.65
26	188.48	15.4	2.26992	73.29	12	149.48	336.3	2.24898	73.46
28	233.63	60.5	2.27038	73.49	14	194.64	21.5	2.24764	73.26
30	278.79	105.7	2.27079	73.68	16	239.79	66.6	2.24627	73.06
Juli 2	323.94	150.8	2.27115	73.86	18	284.95	111.8	2.24489	72.85
4	9.10	196.0	2.27145	+74.04	20	330.10	156.9	2.24350	+72.63
6	54.25	241.1	2.27169	74.21	22	15.25	202.1	2.24209	72.40
8	99.41	286.3	2.27188	74.37	24	60.41	247.2	2.24067	72.17
10	144.56	331.4	2.27201	74.52	26	105.56	292.4	2.23923	71.93
12	189.72	16.6	2.27208	74.66	28	150.71	337.5	2.23780	71.69
14	234.87	61.7	2.27209	+74.79	30	195.87	22.7	2.23635	+71.44
16	280.03	106.9	2.27205	74.91	Okt. 2	241.02	67.8	2.23490	71.19
18	325.18	152.0	2.27195	75.02	4	286.18	113.0	2.23345	70.94
20	10.33	197.2	2.27179	75.12	6	331.33	158.1	2.23199	70.68
22	55.49	242.3	2.27158	75.21	8	16.48	203.3	2.23054	70.42
24	100.64	287.5	2.27130	+75.28	10	61.64	248.4	2.22909	+70.15
26	145.79	332.6	2.27097	75.34	12	106.79	293.6	2.22764	69.88
28	190.95	17.8	2.27059	75.39	14	151.94	338.7	2.22619	69.61
30	236.10	63.0	2.27015	75.43	16	197.10	23.9	2.22476	69.34
Aug. 1	281.26	108.1	2.26966	75.46	18	242.25	69.0	2.22333	69.07
3	326.41	153.3	2.26911	+75.47	20	287.41	114.2	2.22191	+68.79
5	11.56	198.5	2.26852	75.47	22	332.56	159.3	2.22051	68.51
7	56.72	243.6	2.26787	75.46	24	17.71	204.5	2.21912	68.23
9	101.87	288.8	2.26717	75.44	26	62.87	249.6	2.21774	67.95
11	147.02	333.9	2.26642	75.41	28	108.02	294.8	2.21638	67.67
13	192.18	19.1	2.26562	+75.37	30	153.17	339.9	2.21503	+67.39
15	237.33	64.2	2.26478	75.32	Nov. 1	198.33	25.1	2.21370	67.11
17	282.49	109.4	2.26389	75.26	3	243.48	70.2	2.21239	66.83
19	327.64	154.5	2.26296	75.18	5	288.64	115.4	2.21110	66.55
21	12.79	199.7	2.26198	75.09	7	333.79	160.5	2.20984	66.27
23	57.95	244.8	2.26097	+74.99	9	18.94	205.7	2.20860	+65.99
25	103.10	290.0	2.25992	74.88	11	64.10	250.8	2.20738	65.71
27	148.25	335.1	2.25883	74.76	13	109.25	296.0	2.20618	65.43
29	193.41	20.3	2.25770	74.63	15	154.40	341.1	2.20501	65.16
31	238.56	65.4	2.25654	+74.49	17	199.56	26.3	2.20387	+64.89

Bewegung der mittleren Länge L und der mittleren Anomalie M

Zeit	Mimas		Enceladus		Tethys	Dione		Rhea		Titan	
	L	M	L	M	L	L	M	L	M	L	M
^d 1	381.985	380.99	262.732	262.4	190.698	131.535	131.5	79.690	79.7	22.58	22.6
^h 1	15.916	15.87	10.947	10.9	7.946	5.481	5.5	3.320	3.3	0.94	0.9
2	31.832	31.75	21.894	21.9	15.892	10.961	11.0	6.641	6.6	1.88	1.9
3	47.748	47.62	32.842	32.8	23.838	16.442	16.4	9.961	10.0	2.82	2.8
4	63.664	63.50	43.789	43.7	31.783	21.923	21.9	13.282	13.3	3.76	3.8
5	79.580	79.37	54.736	54.7	39.729	27.403	27.4	16.602	16.6	4.70	4.7
6	95.496	95.25	65.683	65.6	47.675	32.884	32.9	19.923	19.9	5.64	5.7
7	111.412	111.12	76.630	76.5	55.621	38.364	38.4	23.243	23.2	6.59	6.6
8	127.328	127.00	87.577	87.5	63.566	43.845	43.8	26.564	26.6	7.53	7.5
9	143.244	142.87	98.525	98.4	71.512	49.326	49.3	29.884	29.9	8.47	8.5
10	159.160	158.74	109.472	109.3	79.458	54.806	54.8	33.205	33.2	9.41	9.4
11	175.076	174.62	120.419	120.3	87.403	60.287	60.3	36.525	36.5	10.35	10.4
12	190.992	190.49	131.366	131.2	95.349	65.767	65.7	39.845	39.8	11.29	11.3
13	206.909	206.37	142.313	142.1	103.295	71.248	71.2	43.166	43.2	12.23	12.2
14	222.825	222.24	153.260	153.1	111.241	76.729	76.7	46.486	46.5	13.17	13.2
15	238.741	238.12	164.207	164.0	119.186	82.209	82.2	49.806	49.8	14.11	14.1
16	254.657	253.99	175.154	174.9	127.132	87.690	87.7	53.127	53.1	15.05	15.1
17	270.573	269.86	186.101	185.9	135.078	93.171	93.1	56.447	56.5	15.99	16.0
18	286.489	285.74	197.048	196.8	143.024	98.651	98.6	59.768	59.8	16.93	17.0
19	302.405	301.61	207.996	207.7	150.970	104.132	104.1	63.088	63.1	17.88	17.9
20	318.321	317.49	218.943	218.7	158.916	109.613	109.6	66.409	66.4	18.82	18.8
21	334.237	333.36	229.890	229.6	166.861	115.093	115.1	69.729	69.7	19.76	19.8
22	350.153	349.24	240.837	240.5	174.806	120.574	120.5	73.050	73.1	20.70	20.7
23	366.069	365.11	251.785	251.5	182.752	126.054	126.0	76.370	76.4	21.64	21.7
^m 1	0.265	0.26	0.182	0.2	0.132	0.091	0.1	0.055	0.0	0.02	0.0
2	0.531	0.53	0.365	0.4	0.265	0.183	0.2	0.111	0.1	0.03	0.0
3	0.796	0.79	0.547	0.5	0.397	0.274	0.3	0.166	0.1	0.05	0.0
4	1.061	1.06	0.730	0.7	0.530	0.365	0.4	0.221	0.2	0.06	0.1
5	1.326	1.32	0.912	0.9	0.662	0.457	0.5	0.277	0.2	0.08	0.1
6	1.592	1.58	1.095	1.1	0.795	0.548	0.5	0.332	0.3	0.09	0.1
7	1.857	1.85	1.278	1.3	0.927	0.640	0.6	0.387	0.3	0.11	0.1
8	2.122	2.11	1.460	1.4	1.060	0.731	0.7	0.442	0.4	0.13	0.1
9	2.388	2.38	1.642	1.6	1.192	0.822	0.8	0.497	0.4	0.14	0.1
10	2.653	2.64	1.825	1.8	1.324	0.914	0.9	0.553	0.5	0.16	0.2
20	5.305	5.29	3.649	3.6	2.649	1.827	1.8	1.107	1.1	0.31	0.3
30	7.958	7.93	5.474	5.4	3.973	2.740	2.7	1.660	1.6	0.47	0.5
40	10.611	10.58	7.298	7.3	5.297	3.654	3.7	2.214	2.2	0.63	0.6
50	13.263	13.22	9.123	9.1	6.622	4.567	4.6	2.767	2.7	0.78	0.8
^s 10	0.044	0.04	0.030	0.0	0.022	0.015	0.0	0.009	0.0	0.00	0.0
20	0.088	0.09	0.061	0.1	0.044	0.030	0.0	0.018	0.0	0.01	0.0
30	0.133	0.13	0.091	0.1	0.066	0.046	0.0	0.028	0.0	0.01	0.0
40	0.177	0.17	0.122	0.1	0.088	0.061	0.1	0.037	0.0	0.01	0.0
50	0.221	0.22	0.152	0.2	0.110	0.076	0.1	0.046	0.0	0.01	0.0

M	Mimas		Enceladus		Dione		Rhea		M
	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	
0	0.000	9.99167	0.000	9.99800	0.000	9.99913	0.000	9.99961	360
2	0.078	9.99167	0.018	9.99800	0.008	9.99913	0.004	9.99961	358
4	0.156	9.99169	0.037	9.99800	0.016	9.99913	0.007	9.99961	356
6	0.233	9.99172	0.055	9.99801	0.024	9.99913	0.011	9.99961	354
8	0.310	9.99175	0.074	9.99802	0.032	9.99914	0.014	9.99961	352
10	0.387	9.99180	0.092	9.99803	0.040	9.99914	0.018	9.99961	350
12	0.463	9.99186	0.110	9.99804	0.048	9.99915	0.021	9.99962	348
14	0.539	9.99193	0.128	9.99806	0.056	9.99916	0.025	9.99962	346
16	0.614	9.99201	0.146	9.99808	0.063	9.99916	0.028	9.99962	344
18	0.688	9.99210	0.164	9.99810	0.071	9.99917	0.032	9.99963	342
20	0.762	9.99220	0.181	9.99812	0.079	9.99918	0.035	9.99963	340
22	0.834	9.99230	0.199	9.99814	0.086	9.99919	0.039	9.99964	338
24	0.905	9.99242	0.216	9.99817	0.093	9.99921	0.042	9.99964	336
26	0.975	9.99255	0.232	9.99820	0.101	9.99922	0.045	9.99965	334
28	1.044	9.99269	0.249	9.99823	0.108	9.99923	0.048	9.99966	332
30	1.111	9.99284	0.265	9.99827	0.115	9.99925	0.052	9.99966	330
32	1.177	9.99299	0.281	9.99830	0.122	9.99926	0.055	9.99967	328
34	1.242	9.99316	0.296	9.99834	0.128	9.99928	0.058	9.99968	326
36	1.305	9.99333	0.311	9.99838	0.135	9.99930	0.061	9.99968	324
38	1.366	9.99351	0.326	9.99842	0.141	9.99931	0.064	9.99969	322
40	1.425	9.99370	0.340	9.99847	0.148	9.99933	0.066	9.99970	320
42	1.483	9.99390	0.354	9.99852	0.154	9.99935	0.069	9.99971	318
44	1.538	9.99410	0.368	9.99856	0.159	9.99937	0.072	9.99972	316
46	1.592	9.99431	0.381	9.99861	0.165	9.99940	0.074	9.99973	314
48	1.644	9.99453	0.393	9.99866	0.171	9.99942	0.077	9.99974	312
50	1.693	9.99476	0.405	9.99872	0.176	9.99944	0.079	9.99975	310
52	1.741	9.99499	0.417	9.99877	0.181	9.99947	0.081	9.99976	308
54	1.786	9.99523	0.428	9.99883	0.186	9.99949	0.083	9.99977	306
56	1.829	9.99547	0.438	9.99889	0.190	9.99951	0.085	9.99978	304
58	1.870	9.99572	0.448	9.99895	0.195	9.99954	0.087	9.99979	302
60	1.908	9.99598	0.458	9.99901	0.199	9.99957	0.089	9.99980	300
62	1.944	9.99623	0.467	9.99907	0.203	9.99959	0.091	9.99982	298
64	1.977	9.99650	0.475	9.99913	0.206	9.99962	0.093	9.99983	296
66	2.008	9.99676	0.483	9.99919	0.210	9.99965	0.094	9.99984	294
68	2.036	9.99704	0.490	9.99926	0.213	9.99967	0.096	9.99985	292
70	2.062	9.99731	0.496	9.99932	0.216	9.99970	0.097	9.99987	290
72	2.086	9.99759	0.502	9.99939	0.218	9.99973	0.098	9.99988	288
74	2.106	9.99787	0.508	9.99946	0.220	9.99976	0.099	9.99989	286
76	2.124	9.99815	0.512	9.99952	0.222	9.99979	0.100	9.99991	284
78	2.140	9.99843	0.516	9.99959	0.224	9.99982	0.101	9.99992	282
80	2.153	9.99872	0.520	9.99966	0.226	9.99985	0.102	9.99993	280
82	2.163	9.99900	0.523	9.99973	0.227	9.99988	0.102	9.99995	278
84	2.170	9.99929	0.525	9.99980	0.228	9.99991	0.103	9.99996	276
86	2.175	9.99958	0.526	9.99987	0.229	9.99994	0.103	9.99997	274
88	2.177	9.99987	0.527	9.99994	0.229	9.99997	0.103	9.99999	272
90	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270

M	Mimas		Enceladus		Dione		Rhea		M
	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	
90°	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270°
92	2.174	0.00044	0.527	0.00008	0.229	0.00003	0.103	0.00001	268
94	2.168	0.00073	0.526	0.00015	0.229	0.00006	0.103	0.00003	266
96	2.159	0.00101	0.524	0.00022	0.228	0.00009	0.103	0.00004	264
98	2.148	0.00130	0.522	0.00029	0.227	0.00012	0.102	0.00005	262
100	2.135	0.00158	0.519	0.00035	0.226	0.00015	0.102	0.00007	260
102	2.119	0.00186	0.515	0.00042	0.224	0.00018	0.101	0.00008	258
104	2.100	0.00214	0.511	0.00049	0.222	0.00021	0.100	0.00009	256
106	2.079	0.00241	0.506	0.00056	0.220	0.00024	0.099	0.00011	254
108	2.055	0.00268	0.500	0.00062	0.218	0.00027	0.098	0.00012	252
110	2.029	0.00295	0.494	0.00069	0.215	0.00030	0.097	0.00013	250
112	2.000	0.00321	0.488	0.00075	0.212	0.00033	0.096	0.00015	248
114	1.969	0.00347	0.481	0.00082	0.209	0.00035	0.094	0.00016	246
116	1.936	0.00373	0.473	0.00088	0.206	0.00038	0.093	0.00017	244
118	1.901	0.00398	0.464	0.00094	0.202	0.00041	0.091	0.00018	242
120	1.863	0.00422	0.455	0.00100	0.198	0.00044	0.089	0.00019	240
122	1.823	0.00446	0.446	0.00106	0.194	0.00046	0.087	0.00021	238
124	1.781	0.00469	0.436	0.00112	0.190	0.00049	0.085	0.00022	236
126	1.737	0.00492	0.425	0.00118	0.185	0.00051	0.083	0.00023	234
128	1.691	0.00514	0.414	0.00123	0.180	0.00053	0.081	0.00024	232
130	1.643	0.00536	0.402	0.00129	0.175	0.00056	0.079	0.00025	230
132	1.593	0.00557	0.390	0.00134	0.170	0.00058	0.077	0.00026	228
134	1.541	0.00577	0.378	0.00139	0.164	0.00060	0.074	0.00027	226
136	1.487	0.00597	0.365	0.00144	0.159	0.00062	0.072	0.00028	224
138	1.431	0.00616	0.351	0.00148	0.153	0.00065	0.069	0.00029	222
140	1.374	0.00634	0.337	0.00153	0.147	0.00067	0.066	0.00030	220
142	1.316	0.00651	0.323	0.00157	0.141	0.00068	0.064	0.00031	218
144	1.256	0.00668	0.308	0.00162	0.134	0.00070	0.061	0.00032	216
146	1.194	0.00683	0.293	0.00166	0.128	0.00072	0.058	0.00033	214
148	1.131	0.00698	0.278	0.00169	0.121	0.00074	0.055	0.00033	212
150	1.067	0.00713	0.262	0.00173	0.114	0.00075	0.052	0.00034	210
152	1.001	0.00726	0.246	0.00176	0.107	0.00077	0.048	0.00034	208
154	0.934	0.00738	0.230	0.00179	0.100	0.00078	0.045	0.00035	206
156	0.867	0.00750	0.213	0.00182	0.093	0.00079	0.042	0.00036	204
158	0.798	0.00760	0.196	0.00185	0.086	0.00080	0.039	0.00036	202
160	0.728	0.00770	0.179	0.00187	0.078	0.00081	0.035	0.00037	200
162	0.658	0.00779	0.162	0.00190	0.071	0.00082	0.032	0.00037	198
164	0.587	0.00787	0.144	0.00192	0.063	0.00083	0.028	0.00037	196
166	0.515	0.00794	0.127	0.00193	0.055	0.00084	0.025	0.00038	194
168	0.442	0.00800	0.109	0.00195	0.048	0.00085	0.021	0.00038	192
170	0.369	0.00805	0.091	0.00196	0.040	0.00085	0.018	0.00038	190
172	0.296	0.00810	0.073	0.00197	0.032	0.00086	0.014	0.00039	188
174	0.222	0.00813	0.055	0.00198	0.024	0.00086	0.011	0.00039	186
176	0.148	0.00815	0.037	0.00199	0.016	0.00086	0.007	0.00039	184
178	0.074	0.00817	0.018	0.00199	0.008	0.00087	0.004	0.00039	182
180	0.000	0.00817	0.000	0.00199	0.000	0.00087	0.000	0.00039	180

Oh Welt-Zeit	θ					γ	N	J	ω
	Mimas	Encel.	Tethys	Dione	Rhea	Rhea	Saturnsring		
1931									
Jan. 1	156.6	306.2	197.1	295.2	318.1	20.37	127.667	6.792	41.990
17	140.6	299.5	193.9	293.8	317.7	20.38	127.669	6.792	41.989
Febr. 2	124.6	292.8	190.7	292.5	317.2	20.40	127.671	6.791	41.988
18	108.6	286.1	187.6	291.1	316.8	20.41	127.672	6.791	41.987
März 6	92.6	279.4	184.4	289.7	316.3	20.42	127.674	6.791	41.985
22	76.6	272.7	181.2	288.4	315.9	20.44	127.676	6.791	41.984
April 7	60.6	266.0	178.0	287.0	315.5	20.45	127.678	6.791	41.983
23	44.6	259.3	174.8	285.7	315.0	20.46	127.680	6.790	41.982
Mai 9	28.5	252.6	171.6	284.3	314.6	20.48	127.682	6.790	41.980
25	12.5	245.9	168.5	282.9	314.2	20.49	127.683	6.790	41.979
Juni 10	356.5	239.2	165.3	281.6	313.7	20.51	127.685	6.790	41.978
26	340.5	232.5	162.1	280.2	313.2	20.52	127.687	6.790	41.976
Juli 12	324.5	225.8	158.9	278.9	312.8	20.53	127.689	6.789	41.975
28	308.5	219.1	155.8	277.5	312.4	20.55	127.691	6.789	41.974
Aug. 13	292.5	212.5	152.6	276.1	311.9	20.56	127.692	6.789	41.973
29	276.5	205.8	149.4	274.8	311.5	20.57	127.694	6.789	41.971
Sept. 14	260.5	199.1	146.2	273.4	311.0	20.59	127.696	6.789	41.970
30	244.5	192.4	143.1	272.1	310.6	20.60	127.698	6.788	41.969
Okt. 16	228.5	185.7	139.9	270.7	310.1	20.61	127.700	6.788	41.968
Nov. 1	212.5	179.0	136.7	269.3	309.7	20.63	127.702	6.788	41.966
17	196.5	172.3	133.5	268.0	309.3	20.64	127.703	6.788	41.965
Dez. 3	180.5	165.7	130.3	266.6	308.8	20.65	127.705	6.788	41.964
19	164.5	159.0	127.2	265.3	308.4	20.67	127.707	6.788	41.963
35	148.5	152.2	124.0	263.9	307.9	20.68	127.709	6.787	41.961

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale

u - U		Mimas	Encel.	Tethys	Dione	Rhea	u - U	
0°	360°	-6+	-7+	-9+	-11+	-16+	180°	180°
10	350	-6+	-7+	-9+	-11+	-16+	170	190
20	340	-5+	-7+	-8+	-11+	-15+	160	200
30	330	-5+	-6+	-8+	-10+	-14+	150	210
40	320	-4+	-6+	-7+	-9+	-12+	140	220
50	310	-3+	-5+	-6+	-8+	-10+	130	230
60	300	-3+	-4+	-4+	-6+	-8+	120	240
70	290	-2+	-3+	-3+	-4+	-6+	110	250
80	280	-1+	-1+	-2+	-2+	-3+	100	260
90	270	0	0	0	0	0	90	270

0 ^h Welt-Zeit	HYPERION			0 ^h Welt-Zeit	HYPERION		
	U	B	P		U	B	P
1931				1931			
März 28	165.635 ¹¹⁷	+23.101 ²⁹	+6.748 ³	Juni 14	165.418 ¹²⁴	+23.243 ³⁵	+6.751 ³
30	165.752 ¹¹¹	23.072 ²⁸	6.751 ³	16	165.294 ¹²⁸	23.278 ³⁶	6.748 ³
April 1	165.863 ¹⁰⁵	23.044 ²⁶	6.754 ³	18	165.166 ¹³²	23.314 ³⁷	6.745 ³
3	165.968 ⁹⁹	23.018 ²⁴	6.757 ²	20	165.034 ¹³⁵	23.351 ³⁸	6.742 ³
5	166.067 ⁹³	22.994 ²³	6.759 ²	22	164.899 ¹³⁸	23.389 ³⁸	6.739 ³
7	166.160 ⁸⁶	+22.971 ²¹	+6.761 ²	24	164.761 ¹⁴²	+23.427 ³⁹	+6.736 ⁴
9	166.246 ⁸⁰	22.950 ²⁰	6.763 ²	26	164.619 ¹⁴⁵	23.466 ⁴⁰	6.732 ³
11	166.326 ⁷³	22.930 ¹⁸	6.765 ²	28	164.474 ¹⁴⁶	23.506 ⁴⁰	6.729 ⁴
13	166.399 ⁶⁷	22.912 ¹⁶	6.767 ¹	30	164.328 ¹⁴⁸	23.546 ⁴¹	6.725 ³
15	166.466 ⁶⁰	22.896 ¹⁴	6.768 ²	Juli 2	164.180 ¹⁵¹	23.587 ⁴¹	6.722 ⁴
17	166.526 ⁵³	+22.882 ¹³	+6.770 ¹	4	164.029 ¹⁵²	+23.628 ⁴¹	+6.718 ⁴
19	166.579 ⁴⁷	22.869 ¹¹	6.771 ¹	6	163.877 ¹⁵³	23.669 ⁴²	6.714 ⁴
21	166.626 ⁴⁰	22.858 ⁹	6.772 ¹	8	163.724 ¹⁵⁴	23.711 ⁴²	6.710 ⁴
23	166.666 ³³	22.849 ⁷	6.773 ¹	10	163.570 ¹⁵⁶	23.753 ⁴¹	6.706 ⁴
25	166.699 ²⁶	22.842 ⁵	6.774 ¹	12	163.414 ¹⁵⁶	23.794 ⁴²	6.702 ⁴
27	166.725 ¹⁹	+22.837 ³	+6.775 ¹	14	163.258 ¹⁵⁵	+23.836 ⁴¹	+6.698 ⁴
29	166.744 ¹³	22.834 ²	6.776 ⁰	16	163.103 ¹⁵⁵	23.877 ⁴¹	6.694 ⁴
Mai 1	166.757 ⁶	22.832 ¹	6.776 ⁰	18	162.948 ¹⁵⁴	23.918 ⁴¹	6.690 ⁵
3	166.763 ¹	22.833 ²	6.776 ⁰	20	162.794 ¹⁵⁴	23.959 ⁴¹	6.685 ⁵
5	166.762 ⁸	22.835 ⁴	6.776 ⁰	22	162.640 ¹⁵²	24.000 ⁴⁰	6.681 ⁵
7	166.754 ¹⁵	+22.839 ⁶	+6.776 ⁰	24	162.488 ¹⁵⁰	+24.040 ³⁹	+6.676 ⁴
9	166.739 ²¹	22.845 ⁸	6.776 ⁰	26	162.338 ¹⁴⁹	24.079 ³⁹	6.672 ⁵
11	166.718 ²⁸	22.853 ¹⁰	6.776 ¹	28	162.189 ¹⁴⁶	24.118 ³⁸	6.667 ⁵
13	166.690 ³⁴	22.863 ¹²	6.775 ⁰	30	162.043 ¹⁴⁴	24.156 ³⁷	6.662 ⁴
15	166.656 ⁴¹	22.875 ¹³	6.775 ¹	Aug. 1	161.899 ¹⁴¹	24.193 ³⁶	6.658 ⁴
17	166.615 ⁴⁸	+22.888 ¹⁵	+6.774 ¹	3	161.758 ¹³⁸	+24.229 ³⁶	+6.654 ⁴
19	166.567 ⁵⁴	22.903 ¹⁷	6.773 ¹	5	161.620 ¹³⁵	24.265 ³⁵	6.650 ⁴
21	166.513 ⁶⁰	22.920 ¹⁹	6.772 ¹	7	161.485 ¹³¹	24.300 ³⁴	6.646 ⁴
23	166.453 ⁶⁶	22.939 ²⁰	6.771 ¹	9	161.354 ¹²⁷	24.334 ³³	6.642 ⁴
25	166.387 ⁷²	22.959 ²²	6.770 ¹	11	161.227 ¹²³	24.367 ³¹	6.638 ⁴
27	166.315 ⁷⁸	+22.981 ²⁴	+6.769 ¹	13	161.104 ¹¹⁸	+24.398 ³¹	+6.634 ⁴
29	166.237 ⁸⁴	23.005 ²⁵	6.768 ²	15	160.986 ¹¹⁴	24.429 ²⁹	6.630 ³
31	166.153 ⁹⁰	23.030 ²⁶	6.766 ²	17	160.872 ¹⁰⁹	24.458 ²⁸	6.627 ³
Juni 2	166.063 ⁹⁵	23.056 ²⁸	6.764 ²	19	160.763 ¹⁰⁴	24.486 ²⁷	6.623 ⁴
4	165.968 ¹⁰⁰	23.084 ²⁹	6.762 ²	21	160.659 ⁹⁸	24.513 ²⁶	6.620 ³
6	165.868 ¹⁰⁵	+23.113 ³¹	+6.760 ²	23	160.561 ⁹³	+24.539 ²⁴	+6.617 ³
8	165.763 ¹¹¹	23.144 ³²	6.758 ²	25	160.468 ⁸⁷	24.563 ²³	6.614 ³
10	165.652 ¹¹⁵	23.176 ³³	6.756 ²	27	160.381 ⁸²	24.586 ²¹	6.611 ³
12	165.537 ¹¹⁹	23.209 ³⁴	6.754 ³	29	160.299 ⁷⁶	24.607 ²⁰	6.608 ²
14	165.418	+23.243	+6.751	31	160.223	+24.627	+6.606

0 ^h Welt-Zeit	HYPERION			0 ^h Welt-Zeit	JAPETUS		
	<i>U</i>	<i>B</i>	<i>P</i>		<i>U</i>	<i>B</i>	<i>P</i>
1931				1931			
Aug. 31	160.223	+24.627 ¹⁸	+6.606 ³	März 28	244.530 ¹⁰⁹	+8.350 ²⁹	+6.633 ²⁷
Sept. 2	160.154 ⁶⁹	24.645 ¹⁸	6.603 ³	30	244.639 ¹⁰⁴	8.321 ²⁷	6.606 ²⁶
4	160.091 ⁶³	24.662 ¹⁷	6.601 ²	April 1	244.743 ⁹⁸	8.294 ²⁶	6.580 ²⁵
6	160.034 ⁵⁷	24.678 ¹⁶	6.599 ¹	3	244.841 ⁹²	8.268 ²⁴	6.555 ²³
8	159.984 ⁵⁰	24.692 ¹⁴	6.598 ¹	5	244.933 ⁸⁶	8.244 ²³	6.532 ²²
	43	13					
10	159.941 ³⁷	+24.705 ¹¹	+6.597 ¹	7	245.019 ⁸¹	+8.221 ²¹	+6.510 ²⁰
12	159.904 ³⁰	24.716 ¹⁰	6.596 ¹	9	245.100 ⁷⁴	8.200 ¹⁹	6.490 ¹⁸
14	159.874 ²³	24.726 ⁸	6.595 ¹	11	245.174 ⁶⁸	8.181 ¹⁸	6.472 ¹⁷
16	159.851 ¹⁶	24.734 ⁷	6.594 ⁰	13	245.242 ⁶²	8.163 ¹⁶	6.455 ¹⁶
18	159.835 ⁹	24.741 ⁵	6.594 ⁰	15	245.304 ⁵⁶	8.147 ¹⁴	6.439 ¹⁴
20	159.826 ²	+24.746 ⁴	+6.594 ⁰	17	245.360 ⁵⁰	+8.133 ¹²	+6.425 ¹²
22	159.824 ⁵	24.750 ²	6.594 ⁰	19	245.410 ⁴³	8.121 ¹¹	6.413 ¹¹
24	159.829 ¹²	24.752 ⁰	6.594 ¹	21	245.453 ³⁷	8.110 ⁹	6.402 ⁹
26	159.841 ¹⁹	24.752 ²	6.595 ¹	23	245.490 ³¹	8.101 ⁷	6.393 ⁸
28	159.860 ²⁷	24.750 ³	6.596 ¹	25	245.521 ²⁴	8.094 ⁵	6.385 ⁶
30	159.887 ³⁴	+24.747 ⁴	+6.597 ¹	27	245.545 ¹⁸	+8.089 ³	+6.379 ⁵
Okt. 2	159.921 ⁴⁰	24.743 ⁶	6.598 ²	29	245.563 ¹²	8.086 ¹	6.374 ³
4	159.961 ⁴⁷	24.737 ⁸	6.600 ²	1	245.575 ⁶	8.085 ⁰	6.371 ¹
6	160.008 ⁵⁴	24.729 ⁹	6.602 ²	3	245.581 ¹	8.085 ²	6.370 ⁰
8	160.062 ⁶¹	24.720 ¹¹	6.604 ³	5	245.580 ⁷	8.087 ⁴	6.370 ²
10	160.123 ⁶⁸	+24.709 ¹²	+6.607 ³	7	245.573 ¹³	+8.091 ⁶	+6.372 ³
12	160.191 ⁷⁵	24.697 ¹⁴	6.610 ³	9	245.560 ¹⁹	8.097 ⁸	6.375 ⁵
14	160.266 ⁸²	24.683 ¹⁵	6.613 ³	11	245.541 ²⁶	8.105 ¹⁰	6.380 ⁷
16	160.348 ⁸⁹	24.668 ¹⁷	6.616 ³	13	245.515 ³²	8.115 ¹¹	6.387 ⁸
18	160.437 ⁹⁵	24.651 ¹⁹	6.619 ⁴	15	245.483 ³⁸	8.126 ¹³	6.395 ¹⁰
20	160.532 ¹⁰¹	+24.632 ²⁰	+6.623 ³	17	245.445 ⁴⁴	+8.139 ¹⁵	+6.405 ¹¹
22	160.633 ¹⁰⁸	24.612 ²²	6.626 ⁴	19	245.401 ⁵⁰	8.154 ¹⁶	6.416 ¹³
24	160.741 ¹¹⁴	24.590 ²⁴	6.630 ⁴	21	245.351 ⁵⁶	8.170 ¹⁸	6.429 ¹⁴
26	160.855 ¹²⁰	24.566 ²⁵	6.634 ⁵	23	245.295 ⁶²	8.188 ²⁰	6.443 ¹⁶
28	160.975 ¹²⁶	24.541 ²⁶	6.639 ⁴	25	245.233 ⁶⁸	8.208 ²²	6.459 ¹⁷
30	161.101 ¹³²	+24.515 ²⁸	+6.643 ⁵	27	245.165 ⁷³	+8.230 ²³	+6.476 ¹⁹
Nov. 1	161.233 ¹³⁸	24.487 ²⁹	6.648 ⁵	29	245.092 ⁷⁸	8.253 ²⁴	6.495 ²⁰
3	161.371 ¹⁴³	24.458 ³¹	6.653 ⁵	31	245.014 ⁸³	8.277 ²⁶	6.515 ²¹
5	161.514 ¹⁴⁹	24.427 ³²	6.658 ⁵	Juni 2	244.931 ⁸⁹	8.303 ²⁸	6.536 ²²
7	161.663 ¹⁵⁵	24.395 ³⁴	6.663 ⁵	4	244.842 ⁹³	8.331 ²⁹	6.558 ²³
9	161.818 ¹⁶⁰	+24.361 ³⁵	+6.668 ⁵	6	244.749 ⁹⁸	+8.360 ³⁰	+6.581 ²⁵
11	161.978 ¹⁶⁶	24.326 ³⁷	6.673 ⁶	8	244.651 ¹⁰²	8.390 ³¹	6.606 ²⁶
13	162.144 ¹⁷⁰	24.289 ³⁸	6.679 ⁵	10	244.549 ¹⁰⁷	8.421 ³³	6.632 ²⁷
15	162.314 ¹⁷⁵	24.251 ³⁹	6.684 ⁶	12	244.442 ¹¹¹	8.454 ³⁴	6.659 ²⁸
17	162.489	+24.212	+6.690	14	244.331	+8.488	+6.687

0 ^h Welt-Zeit	JAPETUS			0 ^h Welt-Zeit	JAPETUS		
	U	B	P		U	B	P
1931				1931			
Juni 14	244.331 ¹¹⁵	+8.488 ³⁵	+6.687 ²⁹	Aug. 31	239.541 ⁶³	+9.918 ²⁰	+7.879 ¹⁶
16	244.216 ¹¹⁹	8.523 ³⁶	6.716 ³⁰	Sept. 2	239.478 ⁵⁸	9.938 ¹⁹	7.895 ¹⁴
18	244.097 ¹²²	8.559 ³⁷	6.746 ³¹	4	239.420 ⁵²	9.957 ¹⁷	7.909 ¹³
20	243.975 ¹²⁶	8.596 ³⁸	6.777 ³²	6	239.368 ⁴⁶	9.974 ¹⁵	7.922 ¹¹
22	243.849 ¹²⁸	8.634 ³⁹	6.809 ³²	8	239.322 ⁴⁰	9.989 ¹⁴	7.933 ¹⁰
24	243.721 ¹³¹	+8.673 ³⁹	+6.841 ³³	10	239.282 ³³	+10.003 ¹²	+7.943 ⁸
26	243.590 ¹³⁴	8.712 ⁴⁰	6.874 ³⁴	12	239.249 ²⁷	10.015 ¹⁰	7.951 ⁷
28	243.456 ¹³⁶	8.752 ⁴¹	6.908 ³⁴	14	239.222 ²¹	10.025 ⁸	7.958 ⁵
30	243.320 ¹³⁷	8.793 ⁴¹	6.942 ³⁵	16	239.201 ¹⁴	10.033 ⁷	7.963 ⁴
Juli 2	243.183 ¹³⁹	8.834 ⁴²	6.977 ³⁵	18	239.187 ⁸	10.040 ⁵	7.967 ²
4	243.044 ¹⁴¹	+8.876 ⁴²	+7.012 ³⁵	20	239.179 ²	+10.045 ⁴	+7.969 ¹
6	242.903 ¹⁴²	8.918 ⁴²	7.047 ³⁶	22	239.177 ⁵	10.049 ²	7.970 ¹
8	242.761 ¹⁴³	8.960 ⁴²	7.083 ³⁶	24	239.182 ¹¹	10.051 ⁰	7.969 ³
10	242.618 ¹⁴³	9.002 ⁴³	7.119 ³⁵	26	239.193 ¹⁸	10.051 ²	7.966 ⁴
12	242.475 ¹⁴⁴	9.045 ⁴²	7.154 ³⁶	28	239.211 ²⁴	10.049 ⁴	7.962 ⁶
14	242.331 ¹⁴³	+9.087 ⁴³	+7.190 ³⁵	30	239.235 ³¹	+10.045 ⁵	+7.956 ⁷
16	242.188 ¹⁴³	9.130 ⁴³	7.225 ³⁶	Okt. 2	239.266 ³⁷	10.040 ⁷	7.949 ⁹
18	242.045 ¹⁴²	9.173 ⁴²	7.261 ³⁵	4	239.303 ⁴³	10.033 ⁹	7.940 ¹⁰
20	241.903 ¹⁴¹	9.215 ⁴²	7.296 ³⁵	6	239.346 ⁵⁰	10.024 ¹⁰	7.930 ¹²
22	241.762 ¹⁴⁰	9.257 ⁴¹	7.331 ³⁵	8	239.396 ⁵⁶	10.014 ¹²	7.918 ¹³
24	241.622 ¹³⁸	+9.298 ⁴¹	+7.366 ³⁴	10	239.452 ⁶³	+10.002 ¹⁴	+7.905 ¹⁵
26	241.484 ¹³⁷	9.339 ⁴⁰	7.400 ³⁴	12	239.515 ⁶⁹	9.988 ¹⁶	7.890 ¹⁷
28	241.347 ¹³⁵	9.379 ⁴⁰	7.434 ³⁴	14	239.584 ⁷⁵	9.972 ¹⁷	7.873 ¹⁸
30	241.212 ¹³²	9.419 ³⁹	7.468 ³³	16	239.659 ⁸¹	9.955 ¹⁹	7.855 ¹⁹
Aug. 1	241.080 ¹³⁰	9.458 ³⁸	7.501 ³²	18	239.740 ⁸⁷	9.936 ²¹	7.836 ²¹
3	240.950 ¹²⁷	+9.496 ³⁸	+7.533 ³¹	20	239.827 ⁹³	+9.915 ²²	+7.815 ²³
5	240.823 ¹²⁴	9.534 ³⁶	7.564 ³⁰	22	239.920 ¹⁰⁰	9.893 ²⁴	7.792 ²⁴
7	240.699 ¹²⁰	9.570 ³⁵	7.594 ³⁰	24	240.020 ¹⁰⁵	9.869 ²⁶	7.768 ²⁵
9	240.579 ¹¹⁷	9.605 ³⁵	7.624 ²⁹	26	240.125 ¹¹¹	9.843 ²⁷	7.743 ²⁷
11	240.462 ¹¹³	9.640 ³⁴	7.653 ²⁸	28	240.236 ¹¹⁶	9.816 ²⁸	7.716 ²⁸
13	240.349 ¹⁰⁹	+9.674 ³³	+7.681 ²⁷	30	240.352 ¹²²	+9.788 ³⁰	+7.688 ³⁰
15	240.240 ¹⁰⁴	9.707 ³¹	7.708 ²⁶	Nov. 1	240.474 ¹²⁷	9.758 ³²	7.658 ³¹
17	240.136 ¹⁰⁰	9.738 ³⁰	7.734 ²⁴	3	240.601 ¹³³	9.726 ³³	7.627 ³²
19	240.036 ⁹⁶	9.768 ²⁹	7.758 ²³	5	240.734 ¹³⁷	9.693 ³⁴	7.595 ³⁴
21	239.940 ⁹⁰	9.797 ²⁷	7.781 ²²	7	240.871 ¹⁴²	9.659 ³⁶	7.561 ³⁵
23	239.850 ⁸⁴	+9.824 ²⁶	+7.803 ²¹	9	241.013 ¹⁴⁸	+9.623 ³⁸	+7.526 ³⁶
25	239.766 ⁸⁰	9.850 ²⁴	7.824 ²⁰	11	241.161 ¹⁵²	9.585 ³⁹	7.490 ³⁷
27	239.686 ⁷⁶	9.874 ²³	7.844 ¹⁸	13	241.313 ¹⁵⁶	9.546 ⁴⁰	7.453 ³⁹
29	239.610 ⁶⁹	9.897 ²¹	7.862 ¹⁷	15	241.469 ¹⁶²	9.506 ⁴¹	7.414 ⁴⁰
31	239.541	+9.918	+7.879	17	241.631	+9.465	+7.374

0h Welt-Zeit	HYPERION		0h Welt-Zeit	HYPERION		0h Welt-Zeit	HYPERION	
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$
1931			1931			1931		
März 28	— 7.3 ^a +3.9 ^a	+70 ^a + 6	Mai 6	—13.3 ^a —0.2 ^a	0 ^a +27 ^a	Juni 14	— 3.3 ^a —4.3 ^a	—81 ^a +18 ^a
29	— 3.4 +4.3	+76 — 2	7	—13.5 +1.4	+27 +24	15	— 7.6 —3.6	—63 +24
30	+ 0.9 +4.2	+74 — 8	8	—12.1 +2.8	+51 +18	16	—11.2 —2.4	—39 +28
31	+ 5.1 +3.8	+66 —15	9	— 9.3 +3.8	+69 +10	17	—13.6 —0.8	—11 +29
April 1	+ 8.9 +3.1	+51 —19	10	— 5.5 +4.5	+79 + 2	18	—14.4 +0.9	+18 +28
2	+12.0 +2.2	+32 —21	11	— 1.0 +4.6	+81 — 6	19	—13.5 +2.5	+46 +22
3	+14.2 +1.2	+11 —22	12	+ 3.6 +4.3	+75 —13	20	—11.0 +3.8	+68 +14
4	+15.4 +0.2	—11 —21	13	+ 7.9 +3.7	+62 —18	21	— 7.2 +4.5	+82 + 6
5	+15.6 —0.8	—32 —19	14	+11.6 +2.7	+44 —22	22	— 2.7 +4.9	+88 — 4
6	+14.8 —1.9	—51 —16	15	+14.3 +1.8	+22 —23	23	+ 2.2 +4.7	+84 —12
7	+12.9 —2.7	—67 —12	16	+16.1 +0.7	— 1 —23	24	+ 6.9 +4.1	+72 —17
8	+10.2 —3.4	—79 — 6	17	+16.8 —0.5	—24 —22	25	+11.0 +3.3	+55 —22
9	+ 6.8 —3.9	—85 0	18	+16.3 —1.5	—46 —19	26	+14.3 +2.2	+33 —25
10	+ 2.9 —4.2	—85 + 7	19	+14.8 —2.5	—65 —15	27	+16.5 +1.1	+ 8 —25
11	— 1.3 —4.0	—78 +13	20	+12.3 —3.4	—80 — 9	28	+17.6 —0.2	—17 —24
12	— 5.3 —3.6	—65 +19	21	+ 8.9 —4.0	—89 — 3	29	+17.4 —1.2	—41 —22
13	— 8.9 —2.7	—46 +24	22	+ 4.9 —4.4	—92 + 4	30	+16.2 —2.3	—63 —17
14	—11.6 —1.4	—22 +27	23	+ 0.5 —4.5	—88 +12	Juli 1	+13.9 —3.3	—80 —12
15	—13.0 +0.1	+ 5 +26	24	— 4.0 —4.1	—76 +18	2	+10.6 —4.0	—92 — 6
16	—12.9 +1.6	+31 +22	25	— 8.1 —3.3	—58 +24	3	+ 6.6 —4.5	—98 + 2
17	—11.3 +2.9	+53 +16	26	—11.4 —2.1	—34 +28	4	+ 2.1 —4.7	—96 +10
18	— 8.4 +3.9	+69 + 9	27	—13.5 —0.5	— 6 +29	5	— 2.6 —4.5	—86 +17
19	— 4.5 +4.4	+78 0	28	—14.0 +1.1	+23 +26	6	— 7.1 —3.7	—69 +23
20	— 0.1 +4.5	+78 — 8	29	—12.9 +2.7	+49 +20	7	—10.8 —2.7	—46 +28
21	+ 4.4 +4.0	+70 —14	30	—10.2 +3.8	+69 +12	8	—13.5 —1.1	—18 +31
22	+ 8.4 +3.4	+56 —18	31	— 6.4 +4.5	+81 + 4	9	—14.6 +0.6	+13 +29
23	+11.8 +2.5	+38 —21	Juni 1	— 1.9 +4.8	+85 — 5	10	—14.0 +2.3	+42 +24
24	+14.3 +1.5	+17 —23	2	+ 2.9 +4.5	+80 —12	11	—11.7 +3.7	+66 +16
25	+15.8 +0.4	— 6 —22	3	+ 7.4 +3.9	+68 —18	12	— 8.0 +4.5	+82 + 7
26	+16.2 —0.6	—28 —20	4	+11.3 +3.1	+50 —22	13	— 3.5 +4.9	+89 — 2
27	+15.6 —1.7	—48 —18	5	+14.4 +2.0	+28 —24	14	+ 1.4 +4.8	+87 —10
28	+13.9 —2.6	—66 —13	6	+16.4 +0.9	+ 4 —25	15	+ 6.2 +4.3	+77 —17
29	+11.3 —3.4	—79 — 8	7	+17.3 —0.3	—21 —23	16	+10.5 +3.4	+60 —22
30	+ 7.9 —4.0	—87 — 2	8	+17.0 —1.4	—44 —20	17	+13.9 +2.4	+38 —25
Mai 1	+ 3.9 —4.3	—89 + 6	9	+15.6 —2.4	—64 —16	18	+16.3 +1.3	+13 —26
2	— 0.4 —4.2	—83 +13	10	+13.2 —3.4	—80 —11	19	+17.6 0.0	—13 —25
3	— 4.6 —3.9	—70 +19	11	+ 9.8 —4.0	—91 — 4	20	+17.6 —1.1	—38 —22
4	— 8.5 —3.0	—51 +24	12	+ 5.8 —4.5	—95 + 3	21	+16.5 —2.1	—60 —18
5	—11.5 —1.8	—27 +27	13	+ 1.3 —4.6	—92 +11	22	+14.4 —3.2	—78 —14
6	—13.3 0	0	14	— 3.3	—81	23	+11.2	—92

0h Welt-Zeit	HYPERION		0h Welt-Zeit	HYPERION		0h Welt-Zeit	HYPERION	
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$
1931			1931			1931		
Juli 23	+11.2	-92	Aug. 31	+17.3	-26	Okt. 9	+9.3	+59
24	+7.3	-99	Sept. 1	+16.7	-49	10	+12.5	+39
25	+2.9	-98	2	+15.0	-69	11	+14.7	+16
26	-1.8	-90	3	+12.4	-85	12	+15.9	-8
27	-6.3	-74	4	+8.9	-95	13	+16.1	-30
28	-10.2	-51	5	+4.8	-98	14	+15.2	-51
29	-13.1	-23	6	+0.4	-94	15	+13.4	-69
30	-14.5	+7	7	-4.1	-82	16	+10.7	-82
31	-14.2	+37	8	-8.1	-62	17	+7.3	-90
Aug. 1	-12.2	+62	9	-11.4	-37	18	+3.4	-90
2	-8.7	+80	10	-13.4	-8	19	-0.8	-84
3	-4.3	+89	11	-13.9	+21	20	-4.9	-71
4	+0.5	+89	12	-12.8	+48	21	-8.5	-52
5	+5.4	+80	13	-10.1	+70	22	-11.2	-27
6	+9.7	+64	14	-6.3	+84	23	-12.8	0
7	+13.2	+43	15	-1.9	+88	24	-12.8	+28
8	+15.8	+18	16	+2.8	+83	25	-11.4	+52
9	+17.3	-7	17	+7.1	+71	26	-8.6	+69
10	+17.6	-32	18	+10.9	+53	27	-4.9	+79
11	+16.7	-56	19	+13.9	+31	28	-0.7	+81
12	+14.7	-75	20	+15.8	+7	29	+3.6	+75
13	+11.8	-89	21	+16.7	-17	30	+7.5	+63
14	+8.1	-98	22	+16.4	-40	31	+10.8	+46
15	+3.8	-99	23	+15.2	-61	Nov. 1	+13.4	+25
16	-0.8	-93	24	+12.9	-78	2	+15.0	+2
17	-5.3	-78	25	+9.8	-89	3	+15.6	-20
18	-9.3	-57	26	+6.0	-94	4	+15.2	-41
19	-12.4	-30	27	+1.8	-93	5	+13.9	-59
20	-14.1	0	28	-2.5	-84	6	+11.7	-74
21	-14.1	+30	29	-6.6	-67	7	+8.7	-84
22	-12.5	+57	30	-10.1	-45	8	+5.1	-87
23	-9.4	+76	Okt. 1	-12.5	-18	9	+1.1	-84
24	-5.3	+87	2	-13.5	-11	10	-2.9	-74
25	-0.6	+89	3	-12.9	+39	11	-6.6	-58
26	+4.2	+82	4	-10.8	+62	12	-9.8	-36
27	+8.6	+68	5	-7.5	+77	13	-11.8	-11
28	+12.3	+48	6	-3.4	+84	14	-12.5	+16
29	+15.0	+25	7	+1.1	+83	15	-11.8	+40
30	+16.7	0	8	+5.4	+74	16	-9.7	+60
31	+17.3	-26	9	+9.3	+59	17	-6.5	+73

O ^h Welt-Zeit	JAPETUS		O ^h Welt-Zeit	JAPETUS		O ^h Welt-Zeit	JAPETUS	
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$
1931			1931			1931		
März 28	+30.3 ^a +1.8	-21 ["] -13	Juni 14	+32.3 ^a +2.7	-14 ["] -16	Aug. 31	+31.3 ^a +2.6	-13 ["] -18
30	+32.1 ^a +1.1	-34 ["] -13	16	+35.0 ^a +1.7	-30 ["] -16	Sept. 2	+33.9 ^a +1.6	-31 ["] -18
April 1	+33.2 ^a +0.2	-47 ["] -11	18	+36.7 ^a +0.7	-46 ["] -14	4	+35.5 ^a +0.6	-49 ["] -16
3	+33.4 ^a -0.8	-58 ["] -10	20	+37.4 ^a -0.3	-60 ["] -13	6	+36.1 ^a -0.3	-65 ["] -14
5	+32.6 ^a -1.6	-68 ["] -8	22	+37.1 ^a -1.4	-73 ["] -11	8	+35.8 ^a -1.3	-79 ["] -12
7	+31.0 ^a -2.4	-76 ["] -6	24	+35.7 ^a -2.4	-84 ["] -9	10	+34.5 ^a -2.3	-91 ["] -10
9	+28.6 ^a -3.2	-82 ["] -4	26	+33.3 ^a -3.3	-93 ["] -7	12	+32.2 ^a -3.1	-101 ["] -7
11	+25.4 ^a -3.9	-86 ["] -2	28	+30.0 ^a -4.1	-100 ["] -4	14	+29.1 ^a -3.9	-108 ["] -3
13	+21.5 ^a -4.5	-88 ["] +1	30	+25.9 ^a -4.9	-104 ["] -1	16	+25.2 ^a -4.5	-111 ["] -1
15	+17.0 ^a -4.9	-87 ["] +2	Juli 2	+21.0 ^a -5.4	-105 ["] +2	18	+20.7 ^a -5.0	-112 ["] +2
17	+12.1 ^a -5.2	-85 ["] +5	4	+15.6 ^a -5.9	-103 ["] +4	20	+15.7 ^a -5.4	-110 ["] +5
19	+6.9 ^a -5.5	-80 ["] +7	6	+9.7 ^a -6.1	-99 ["] +7	22	+10.3 ^a -5.6	-105 ["] +7
21	+1.4 ^a -5.5	-73 ["] +8	8	+3.6 ^a -6.2	-92 ["] +10	24	+4.7 ^a -5.7	-98 ["] +10
23	-4.1 ^a -5.5	-65 ["] +10	10	-2.6 ^a -6.2	-82 ["] +12	26	-1.0 ^a -5.6	-88 ["] +12
25	-9.6 ^a -5.3	-55 ["] +11	12	-8.8 ^a -5.9	-70 ["] +13	28	-6.6 ^a -5.4	-76 ["] +14
27	-14.9 ^a -5.0	-44 ["] +13	14	-14.7 ^a -5.5	-57 ["] +15	30	-12.0 ^a -5.1	-62 ["] +15
29	-19.9 ^a -4.6	-31 ["] +13	16	-20.2 ^a -5.1	-42 ["] +16	Okt. 2	-17.1 ^a -4.7	-47 ["] +16
Mai 1	-24.5 ^a -4.0	-18 ["] +14	18	-25.3 ^a -4.5	-26 ["] +17	4	-21.8 ^a -4.1	-31 ["] +16
3	-28.5 ^a -3.4	-4 ["] +14	20	-29.8 ^a -3.7	-9 ["] +18	6	-25.9 ^a -3.5	-15 ["] +16
5	-31.9 ^a -2.6	+10 ["] +14	22	-33.5 ^a -2.9	+9 ["] +17	8	-29.4 ^a -2.8	+1 ["] +17
7	-34.5 ^a -1.8	+24 ["] +13	24	-36.4 ^a -2.0	+26 ["] +17	10	-32.2 ^a -2.1	+18 ["] +16
9	-36.3 ^a -1.1	+37 ["] +13	26	-38.4 ^a -1.1	+43 ["] +16	12	-34.3 ^a -1.2	+34 ["] +15
11	-37.4 ^a -0.2	+50 ["] +12	28	-39.5 ^a -0.2	+59 ["] +14	14	-35.5 ^a -0.4	+49 ["] +14
13	-37.6 ^a +0.7	+62 ["] +10	30	-39.7 ^a +0.8	+73 ["] +13	16	-35.9 ^a +0.4	+63 ["] +12
15	-36.9 ^a +1.6	+72 ["] +8	Aug. 1	-38.9 ^a +1.7	+86 ["] +11	18	-35.5 ^a +1.2	+75 ["] +10
17	-35.3 ^a +2.4	+80 ["] +7	3	-37.2 ^a +2.6	+97 ["] +8	20	-34.3 ^a +1.9	+85 ["] +9
19	-32.9 ^a +3.2	+87 ["] +5	5	-34.6 ^a +3.4	+105 ["] +6	22	-32.4 ^a +2.7	+94 ["] +6
21	-29.7 ^a +4.0	+92 ["] +3	7	-31.2 ^a +4.2	+111 ["] +3	24	-29.7 ^a +3.3	+100 ["] +3
23	-25.7 ^a +4.7	+95 ["] 0	9	-27.0 ^a +4.9	+114 ["] +1	26	-26.4 ^a +3.9	+103 ["] +1
25	-21.0 ^a +5.2	+95 ["] -2	11	-22.1 ^a +5.4	+115 ["] -3	28	-22.5 ^a +4.4	+104 ["] -1
27	-15.8 ^a +5.6	+93 ["] -4	13	-16.7 ^a +5.8	+112 ["] -5	30	-18.1 ^a +4.8	+103 ["] -4
29	-10.2 ^a +5.9	+89 ["] -7	15	-10.9 ^a +6.0	+107 ["] -8	Nov. 1	-13.3 ^a +5.1	+99 ["] -6
31	-4.3 ^a +6.1	+82 ["] -9	17	-4.9 ^a +6.1	+99 ["] -11	3	-8.2 ^a +5.3	+93 ["] -8
Juni 2	+1.8 ^a +6.1	+73 ["] -11	19	+1.2 ^a +6.1	+88 ["] -13	5	-2.9 ^a +5.3	+85 ["] -11
4	+7.9 ^a +5.9	+62 ["] -13	21	+7.3 ^a +5.9	+75 ["] -15	7	+2.4 ^a +5.2	+74 ["] -12
6	+13.8 ^a +5.5	+49 ["] -14	23	+13.2 ^a +5.5	+60 ["] -17	9	+7.6 ^a +5.0	+62 ["] -13
8	+19.3 ^a +5.0	+35 ["] -15	25	+18.7 ^a +4.9	+43 ["] -18	11	+12.6 ^a +4.6	+49 ["] -15
10	+24.3 ^a +4.4	+20 ["] -17	27	+23.6 ^a +4.2	+25 ["] -19	13	+17.2 ^a +4.2	+34 ["] -15
12	+28.7 ^a +3.6	+3 ["] -17	29	+27.8 ^a +3.5	+6 ["] -19	15	+21.4 ^a +3.6	+19 ["] -15
14	+32.3 ^a	-14 ["]	31	+31.3 ^a	-13 ["]	17	+25.0 ^a	+4 ["]

Östliche Elongationen (in Welt-Zeit)

MIMAS

März 28	6. ^h 3	Mai 11	13. ^h 3	Juni 24	20. ^h 3	Aug. 8	3. ^h 2	Sept. 21	10. ^h 2
29	5.0	12	11.9	25	18.9	9	1.8	22	8.8
30	3.6	13	10.5	26	17.5	10	0.4	23	7.5
31	2.2	14	9.2	27	16.1	10	23.1	24	6.1
April 1	0.8	15	7.8	28	14.7	11	21.7	25	4.7
1	23.5	16	6.4	29	13.3	12	20.3	26	3.3
2	22.1	17	5.0	30	11.9	13	18.9	27	1.9
3	20.7	18	3.7	Juli 1	10.6	14	17.5	28	0.6
4	19.3	19	2.3	2	9.2	15	16.1	28	23.2
5	18.0	20	0.9	3	7.8	16	14.7	29	21.8
6	16.6	20	23.5	4	6.4	17	13.3	30	20.4
7	15.2	21	22.1	5	5.0	18	12.0	Okt. 1	19.0
8	13.8	22	20.8	6	3.6	19	10.6	2	17.6
9	12.4	23	19.4	7	2.2	20	9.2	3	16.3
10	11.0	24	18.0	8	0.8	21	7.8	4	14.9
11	9.6	25	16.6	8	23.5	22	6.4	5	13.5
12	8.3	26	15.2	9	22.1	23	5.0	6	12.1
13	6.9	27	13.8	10	20.7	24	3.6	7	10.8
14	5.5	28	12.4	11	19.3	25	2.2	8	9.4
15	4.1	29	11.0	12	17.9	26	0.9	9	8.0
16	2.8	30	9.7	13	16.5	26	23.5	10	6.6
17	1.4	31	8.3	14	15.1	27	22.1	11	5.3
18	0.0	Juni 1	6.9	15	13.7	28	20.7	12	3.9
18	22.6	2	5.5	16	12.3	29	19.3	13	2.5
19	21.2	3	4.2	17	11.0	30	17.9	14	1.1
20	19.9	4	2.8	18	9.6	31	16.5	14	23.8
21	18.5	5	1.4	19	8.2	Sept. 1	15.2	15	22.4
22	17.1	6	0.0	20	6.8	2	13.8	16	21.0
23	15.7	6	22.6	21	5.5	3	12.4	17	19.6
24	14.3	7	21.3	22	4.1	4	11.0	18	18.2
25	12.9	8	19.9	23	2.7	5	9.7	19	16.9
26	11.5	9	18.5	24	1.3	6	8.3	20	15.5
27	10.1	10	17.1	24	23.9	7	6.9	21	14.1
28	8.8	11	15.7	25	22.6	8	5.5	22	12.7
29	7.4	12	14.3	26	21.2	9	4.2	23	11.4
30	6.0	13	12.9	27	19.8	10	2.8	24	10.0
Mai 1	4.6	14	11.5	28	18.4	11	1.4	25	8.6
2	3.2	15	10.2	29	17.0	12	0.0	26	7.2
3	1.8	16	8.8	30	15.6	12	22.7	27	5.9
4	0.4	17	7.4	31	14.2	13	21.3	28	4.5
4	23.0	18	6.0	Aug. 1	12.8	14	19.9	29	3.1
5	21.7	19	4.6	2	11.5	15	18.5	30	1.7
6	20.3	20	3.2	3	10.1	16	17.1	31	0.4
7	18.9	21	1.8	4	8.7	17	15.7	31	23.0
8	17.5	22	0.4	5	7.3	18	14.3	Nov. 1	21.6
9	16.1	22	23.1	6	6.0	19	13.0	2	20.2
10	14.7	23	21.7	7	4.6	20	11.6	3	18.8

Östliche Elongationen (in Welt-Zeit)

TETHYS			TETHYS			DIONE			DIONE			RHEA			
Juni	9	7.9	Sept. 6	6	0.6	April 5	5	17.0	Aug. 12	12	7.2	Apr. 25	25	22.3	
	11	5.2		7	22.0		8	10.7		15	0.9		30	10.7	
	13	2.5		9	19.3		11	4.4		17	18.6		30	23.1	
	14	23.8		11	16.6		13	22.1		20	12.3		9	11.5	
	16	21.1		13	13.9		16	15.8		23	5.9		13	23.9	
	18	18.4		15	11.2		19	9.5		25	23.6		18	12.3	
	20	15.6		17	8.5		22	3.2		28	17.2		23	0.7	
	22	12.9		19	5.8		24	20.9		31	10.9		27	13.1	
	24	10.2		21	3.1		27	14.6		Sept. 3	4.6		Juni 1	1	1.4
	26	7.5		23	0.4		30	8.3			5			22.3	5	13.8
28	4.8	24	21.8	Mai 3	2.0	8	15.9	10	2.1						
30	2.1	26	19.1		5	19.6	11	9.6	14		14.4				
Juli 1	23.4	28	16.4		8	13.3	14	3.3	19		2.8				
	3	20.7	30		13.7	11	7.0	16	21.0		23	15.1			
	5	17.9	Okt. 2		11.0	14	0.7	19	14.7		28	3.4			
	7	15.2			4	8.3	16	18.4	22		8.4	Juli 2		15.8	
	9	12.5			6	5.6	19	12.0	25		2.0			7	4.1
	11	9.8			8	2.9	22	5.7	27		19.7			11	16.5
	13	7.1			10	0.3	24	23.3	30	13.4	16		4.8		
	15	4.4			11	21.6	27	17.0	Okt. 3	7.1	20		17.1		
	17	1.7		13	18.9	30	10.7	6		0.8	25		5.4		
	18	23.0		15	16.2	Juni 2	4.3	8		18.5	29		17.7		
20	20.3	17		13.5	4		22.0	11		12.3	Aug. 3		6.0		
22	17.5	19		10.8	7		15.6	14		6.0			7	18.4	
24	14.8	21	8.2	10	9.3		16	23.7		12			6.7		
26	12.1	23	5.5	13	2.9		19	17.4		16		19.0			
28	9.4	25	2.8	15	20.6		22	11.1		21		7.4			
30	6.7	27	0.1	18	14.2		25	4.8		25		19.7			
Aug. 1	4.0	28	21.4	21	7.9		27	22.6		30		8.1			
	3	1.3	30	18.8	24		1.5	30	16.3	Sept. 3		20.5			
	4	22.6	Nov. 1	16.1	26		19.2	Nov. 2	10.0			8	8.9		
	6	19.9		29	12.8	5	3.7		12			21.2			
	8	17.2		Juli 2	6.5	7	21.4		17		9.6				
	10	14.5			5	0.1	10		15.1		21	22.0			
	12	11.8			7	17.8	13		8.9		26	10.5			
	14	9.1			10	11.4	16		2.6		30	22.9			
	16	6.4			13	5.1	18		20.3		Okt. 5	11.4			
	18	3.7			15	22.7	' RHEA					9	23.9		
20	1.0	18			16.3	14						12.3			
21	22.3	21			10.0	19				0.8					
23	19.5	24	3.6		23	13.3									
25	16.8	26	21.3		28	1.9									
27	14.1	29	14.9	Nov. 1	14.4										
29	11.4	Aug. 1	8.6		7	20.5				6		2.9			
31	8.7		4		2.3	12				9.0		10	15.4		
Sept. 2	6.0		6		19.9	16				21.4		15	3.9		
	4		3.3		9	13.6				21	9.9	19	16.4		

Elongationen und Konjunktionen (in Welt-Zeit)

TITAN			TITAN			HYPERION		
März 29	13.4 ^h	Unt. Konj.	Sept. 8	21.3 ^h	Westl. El.	Juli 13	21.8 ^h	Ob. Konj.
April 2	16.9	Westl. El.	12	18.0	Ob. Konj.	19	16.9	Östl. El.
6	13.5	Ob. Konj.	16	13.7	Östl. El.	25	19.9	Unt. Konj.
10	9.7	Östl. El.	20	16.3	Unt. Konj.	30	14.1	Westl. El.
14	12.9	Unt. Konj.	24	19.9	Westl. El.	Aug. 4	2.3	Ob. Konj.
18	16.3	Westl. El.	28	16.7	Ob. Konj.	9	21.5	Östl. El.
22	12.6	Ob. Konj.	Okt. 2	12.5	Östl. El.	16	1.0	Unt. Konj.
26	8.8	Östl. El.	6	15.2	Unt. Konj.	20	19.5	Westl. El.
30	11.8	Unt. Konj.	10	19.0	Westl. El.	25	7.8	Ob. Konj.
Mai 4	15.1	Westl. El.	14	15.9	Ob. Konj.	31	3.3	Östl. El.
8	11.4	Ob. Konj.	18	11.8	Östl. El.	Sept. 6	7.4	Unt. Konj.
12	7.4	Östl. El.	22	14.7	Unt. Konj.	11	2.1	Westl. El.
16	10.4	Unt. Konj.	26	18.6	Westl. El.	15	14.7	Ob. Konj.
20	13.5	Westl. El.	30	15.5	Ob. Konj.	21	11.0	Östl. El.
24	9.7	Ob. Konj.	Nov. 3	11.5	Östl. El.	27	15.4	Unt. Konj.
28	5.6	Östl. El.	7	14.6	Unt. Konj.	Okt. 2	10.0	Westl. El.
Juni 1	8.5	Unt. Konj.	11	18.5	Westl. El.	6	23.1	Ob. Konj.
5	11.5	Westl. El.	15	15.4	Ob. Konj.	12	20.5	Östl. El.
9	7.6	Ob. Konj.				19	1.0	Unt. Konj.
13	3.5	Östl. El.				23	19.3	Westl. El.
17	6.1	Unt. Konj.				28	9.1	Ob. Konj.
21	9.2	Westl. El.				Nov. 3	7.7	Östl. El.
25	5.3	Ob. Konj.				9	12.0	Unt. Konj.
29	1.0	Östl. El.				14	5.9	Westl. El.
Juli 3	3.5	Unt. Konj.						
7	6.6	Westl. El.						
11	2.8	Ob. Konj.						
14	22.4	Östl. El.						
19	0.9	Unt. Konj.						
23	4.0	Westl. El.						
27	0.3	Ob. Konj.						
30	19.8	Östl. El.						
Aug. 3	22.3	Unt. Konj.						
8	1.5	Westl. El.						
11	21.9	Ob. Konj.						
15	17.4	Östl. El.						
19	19.9	Unt. Konj.						
23	23.2	Westl. El.						
27	19.8	Ob. Konj.						
31	15.4	Östl. El.						
Sept. 4	17.8	Unt. Konj.						
TITAN			HYPERION			JAPETUS		
			März 29	23.9 ^h	Ob. Konj.	April 2	4.5 ^h	Östl. El.
			April 4	18.4	Östl. El.	21	18.5	Unt. Konj.
			10	22.1	Unt. Konj.	Mai 12	14.3	Westl. El.
			15	16.8	Westl. El.	Juni 1	16.0	Ob. Konj.
			20	5.2	Ob. Konj.	20	8.0	Östl. El.
			26	0.2	Östl. El.	Juli 9	11.1	Unt. Konj.
			Mai 2	3.2	Unt. Konj.	29	22.0	Westl. El.
			6	21.4	Westl. El.	Aug. 18	22.5	Ob. Konj.
			11	9.9	Ob. Konj.	Sept. 6	16.9	Östl. El.
			17	5.2	Östl. El.	26	0.3	Unt. Konj.
			23	7.7	Unt. Konj.	Okt. 16	21.6	Westl. El.
			28	1.6	Westl. El.	Nov. 6	10.5	Ob. Konj.
			Juni 1	14.1	Ob. Konj.	25	16.6	Östl. El.
			7	9.3	Östl. El.			
			13	11.8	Unt. Konj.			
			18	5.6	Westl. El.			
			22	17.9	Ob. Konj.			
			28	13.0	Östl. El.			
			Juli 4	15.7	Unt. Konj.			
			9	9.6	Westl. El.			

Welt-Zeit			Welt-Zeit						
Jan.	1	13 ^h	♂ im Perihel	April	1	5 ^h	♂ im Aphel		
	3	10	☉ in Erdnähe	2	—	☾ tot. Finsternis			
	4	16	♂ ☾ ☾	6	2	♂ ☾ ☾			
	5	12	♀ im Perihel	10	2	♂ ☾ ☾			
	5	14	♂ ☾ ☾	10	11	♀ gr. östl. El. 19° 27'			
	6	3	♀ untere ☾ ☾	14	14	♀ ☾ ☾			
	6	8	♀ ☾ ☾, ♀ 2° 28' N.	17	4	♂ ☾ ☾			
	6	15	♂ ☾ ☾	18	—	☉ part. Finsternis			
	6	18	♂ ☾ ☾	19	9	♀ ☾ ☾			
	8	0	♀ ☾ ☾	20	3	♀ stationär			
	14	23	♀ ☾ ☾	24	1	♂ ☾ ☾			
	17	0	♀ ☾ ☾	25	19	♂ ☾ ☾			
	17	2	♀ stationär	27	12	♀ ☾ ☾			
	17	18	♂ ☾ ☾	27	20	♀ im Aphel			
	25	0	♂ ☾ ☾	30	10	♀ untere ☾ ☾			
	25	14	♂ in Erdnähe						
	27	19	♂ ☾ ☾						
28	18	♀ gr. westl. El. 24° 54'							
31	22	♂ ☾ ☾							
Febr.	1	19 ^h	♀ ☾ ☾, ♀ 0° 3' N.	Mai	3	17 ^h	♂ stationär		
	1	22	♀ gr. westl. El. 46° 55'		7	11	♂ ☾ ☾		
	2	11	♂ ☾ ☾		10	2	♀ ☾ ☾, ♀ 1° 13' S.		
	4	9	♀ ☾ ☾		12	17	♀ stationär		
	13	8	♀ ☾ ☾		13	12	♀ im Aphel		
	14	6	♂ ☾ ☾		14	14	♂ ☾ ☾		
	14	13	♀ im Aphel		15	2	♀ ☾ ☾		
	15	15	♀ ☾ ☾		15	4	♀ stationär		
	21	9	♂ ☾ ☾		16	1	♀ ☾ ☾		
	24	0	♀ ☾ ☾		21	14	♂ ☾ ☾		
	25	2	♀ ☾ ☾, ♀ 1° 43' N.		23	22	♂ ☾ ☾		
	28	5	♂ ☾ ☾		24	18	♀ ☾ ☾		
					27	17	♀ gr. westl. El. 24° 57'		
März	1	10 ^h	♂ ☾ ☾	Juni	3	19 ^h	♂ ☾ ☾		
	3	19	♀ ☾ ☾		11	0	♂ ☾ ☾		
	7	8	♂ stationär		14	8	♀ ☾ ☾		
	9	4	♂ stationär		14	21	♀ ☾ ☾		
	13	16	♂ ☾ ☾		16	10	♂ ☾ ☾, ♂ 0° 28' N.		
	15	5	♀ ☾ ☾		18	5	♂ ☾ ☾		
	16	0	♀ obere ☾ ☾		21	1	♀ ☾ ☾		
	19	16	♀ ☾ ☾		21	5	♂ ☾ ☾		
	20	18	♂ ☾ ☾		22	9	Sommersanfang		
	21	14	Frühlingsanfang		26	12	♀ im Perihel		
	26	7	♀ ☾ ☾, ♀ 0° 45' N.		29	19	♀ obere ☾ ☾		
	27	14	♂ ☾ ☾						
	28	22	♂ ☾ ☾		Juli	1	0 ^h	♂ ☾ ☾	
	30	12	♀ im Perihel			5	22	☉ in Erdferne	
	31	5	♀ ☾ ☾			8	10	♂ ☾ ☾	

Welt-Zeit			Welt-Zeit				
Juli	9	20 ^h	♂♂ 24, ♀ 1° 29' N.	Okt.	7	10 ^h	24♂☾
	13	8	♄♂☉		8	20	♄♂☾
	14	8	♀♂☾		11	—	☉ part. Finsternis
	16	0	24♂☾		11	5	♂♂☾
	16	19	♂♂☾		11	16	♄♂☉
	18	9	♄♂☾		12	6	♀♂☾
	19	15	♂♂☾		13	16	♂♂☾
	25	20	24♂☉		17	19	♄♂☾
	26	5	♄ stationär		18	16	♂ obere ♂☉
	28	4	♄♂☾		25	8	♄♂☾
Aug.	1	19 ^h	♂♂♄, ♀ 1° 13' S.	Nov.	4	0 ^h	24♂☾
	4	18	♄♂☾		5	6	♄♂☾
	6	18	♀♂ 24, ♀ 0° 25' N.		5	10	♂ im Aphel
	8	14	♂ gr. östl. El. 27° 23'		11	0	♂♂☾
	9	12	♂ im Aphel		11	5	♀♂☾
	12	19	24♂☾		11	12	♂♂☾
	13	7	♀♂☾		14	7	♄♂☾
	14	19	♄♂☾		19	3	♀♂♂, ♀ 0° 4' N.
	15	14	♂♂☾		21	1	♂♂♂, ♀ 1° 39' S.
	17	5	♂♂☾		21	13	♄♂☾
	18	3	♀ im Perihel				
	21	17	♂ stationär	Dez.	1	10 ^h	24♂☾
	24	7	♄♂☾		2	13	♄♂☾
	29	21	♄♂☉		3	3	♂ gr. östl. El. 21° 19'
	31	18	♀♂♄, ♀ 0° 42' N.		8	12	♀ im Aphel
	Sept.	1	0 ^h		♄♂☾	10	3	24 stationär
4		10	♂♂♀, ♀ 5° 45' S.		10	10	♂♂☾
5		0	♂ untere ♂☉		10	20	♂♂☾
8		3	♀ obere ♂☉		11	5	♀♂☾
9		16	24♂☾		11	15	♄ stationär
10		6	♂♂♄, ♀ 3° 19' S.		11	19	♂ stationär
11		7	♂♂☾	11	21	♄♂☾	
11		7	♄♂☾	16	5	♂♂♂, ♀ 1° 20' N.	
12		—	☉ part. Finsternis	18	20	♄♂☾	
12		6	♀♂☾	19	10	♂ im Perihel	
13		14	♂ stationär	19	11	♀♂♄, ♀ 1° 32' S.	
14		21	♂♂☾	21	9	♂ untere ♂☉	
17		8	♂♂♄, ♀ 0° 56' S.	22	19	Wintersanfang	
20		12	♄♂☾	26	0	♄ stationär	
21		3	♂ gr. westl. El. 17° 52'	28	15	24♂☾	
21		17	♄ stationär	29	19	♄♂☾	
22		11	♂ im Perihel	31	18	♂ stationär	
24		0	Herbstanfang				
26	—	☾ tot. Finsternis					
28	4	♄♂☾					

Präzession in Rektaszension (p_α) und Deklination (p_δ)

p_α														p_δ
$\alpha \searrow \delta$	+60°	+50°	+40°	+30°	+20°	+10°	0°	-10°	-20°	-30°	-40°	-50°	-60°	
0 ^h	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	- 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	-10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	-14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	-17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	-19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	-20.0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	-19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	-17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	-14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	-10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	- 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	ψ	$\log \pi$	l	ε
1900.0	3.07233	20.0468	50.2564	9.67309	173° 57.06	23° 27' 8.26
1905.0	3.07243	20.0464	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	50.2586	9.67302	174 2.53	23 27 3.58
1915.0	3.07261	20.0456	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	50.2620	9.67293	174 10.75	23 26 56.55
1930.0	3.07289	20.0443	50.2631	9.67290	174 13.49	23 26 54.21
1935.0	3.07299	20.0438	50.2642	9.67287	174 16.23	23 26 51.87
1940.0	3.07308	20.0434	50.2653	9.67284	174 18.97	23 26 49.52

Präzession in Länge p_λ											Präz. in Br. p_β	
Länge λ	Breite β										Länge λ	Präzession p_β
	0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°		
0°	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	0°	+0.048 ⁸⁰
10	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	10	+0.128 ⁷⁷
20	.262	.255	.247	.240	.232	.225	.217	.210	.202	.195	20	+0.205 ⁷⁰
30	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	30	+0.275 ⁶³
40	50.262	.256	.251	.245	.239	50.233	.227	.221	.216	.210	40	+0.338 ⁵²
50	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	50	+0.390 ⁴⁰
60	.262	.259	.255	.252	.249	.245	.242	.238	.235	.231	60	+0.430 ²⁶
70	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	70	+0.456 ¹⁴
80	50.262	.261	.261	.260	.259	50.259	.258	.258	.257	.257	80	+0.470 ¹
90	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	90	+0.469 ¹⁶
100	.262	.264	.267	.269	.271	.273	.275	.277	.280	.282	100	+0.453 ²⁹
110	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	110	+0.424 ⁴²
120	50.262	.267	.271	.276	.281	50.286	.291	.296	.301	.306	120	+0.382 ⁵⁴
130	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	130	+0.328 ⁶³
140	.262	.269	.275	.282	.289	.296	.303	.310	.317	.324	140	+0.265 ⁷²
150	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	150	+0.193 ⁷⁷
160	50.262	.270	.278	.286	.294	50.302	.310	.318	.326	.334	160	+0.116 ⁸¹
170	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	170	+0.035 ⁸³
180	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	180	-0.048 ⁸⁰
190	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	190	-0.128 ⁷⁷
200	50.262	.269	.277	.284	.292	50.299	.307	.314	.322	.329	200	-0.205 ⁷⁰
210	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	210	-0.275 ⁶³
220	.262	.268	.273	.279	.285	.291	.297	.303	.308	.314	220	-0.338 ⁵²
230	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	230	-0.390 ⁴⁰
240	50.262	.265	.269	.272	.275	50.279	.282	.286	.289	.293	240	-0.430 ²⁶
250	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	250	-0.456 ¹⁴
260	.262	.263	.263	.264	.265	.265	.266	.266	.267	.267	260	-0.470 ¹
270	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	270	-0.469 ¹⁶
280	50.262	.260	.257	.255	.253	50.251	.249	.247	.244	.242	280	-0.453 ²⁹
290	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	290	-0.424 ⁴²
300	.262	.257	.253	.248	.243	.238	.233	.228	.223	.218	300	-0.382 ⁵⁴
310	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	310	-0.328 ⁶³
320	50.262	.255	.249	.242	.235	50.228	.221	.214	.207	.200	320	-0.265 ⁷²
330	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	330	-0.193 ⁷⁷
340	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	340	-0.116 ⁸¹
350	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	350	-0.035 ⁸³
360	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	360	+0.048

Präzession in Länge p_λ											Präz. in Br. p_β	
Länge λ	Breite β										Länge λ	Präzession p_β
	0°	—1°	—2°	—3°	—4°	—5°	—6°	—7°	—8°	—9°		
0°	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	0°	+0.048 80
10	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	10	+0.128 77
20	.262	.269	.277	.284	.292	.299	.307	.314	.322	.329	20	+0.205 70
30	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	30	+0.275 63
40	50.262	.268	.273	.279	.285	50.291	.297	.303	.308	.314	40	+0.338 52
50	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	50	+0.390 46
60	.262	.265	.269	.272	.275	.279	.282	.286	.289	.293	60	+0.430 20
70	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	70	+0.456 14
80	50.262	.263	.263	.264	.265	50.265	.266	.266	.267	.267	80	+0.470 1
90	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	90	+0.469 16
100	.262	.260	.257	.255	.253	.251	.249	.247	.244	.242	100	+0.453 29
110	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	110	+0.424 42
120	50.262	.257	.253	.248	.243	50.238	.233	.228	.223	.218	120	+0.382 54
130	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	130	+0.328 63
140	.262	.255	.249	.242	.235	.228	.221	.214	.207	.200	140	+0.265 72
150	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	150	+0.193 77
160	50.262	.254	.246	.238	.230	50.222	.214	.206	.198	.190	160	+0.116 81
170	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	170	+0.035 83
180	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	180	—0.048 80
190	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	190	—0.128 77
200	50.262	.255	.247	.240	.232	50.225	.217	.210	.202	.195	200	—0.205 70
210	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	210	—0.275 63
220	.262	.256	.251	.245	.239	.233	.227	.221	.216	.210	220	—0.338 52
230	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	230	—0.390 40
240	50.262	.259	.255	.252	.249	50.245	.242	.238	.235	.231	240	—0.430 26
250	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	250	—0.456 14
260	.262	.261	.261	.260	.259	.259	.258	.258	.257	.257	260	—0.470 1
270	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	270	—0.469 16
280	50.262	.264	.267	.269	.271	50.273	.275	.277	.280	.282	280	—0.453 29
290	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	290	—0.424 42
300	.262	.267	.271	.276	.281	.286	.291	.296	.301	.306	300	—0.382 54
310	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	310	—0.328 63
320	50.262	.269	.275	.282	.289	50.296	.303	.310	.317	.324	320	—0.265 72
330	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	330	—0.193 77
340	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	340	—0.116 81
350	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	350	—0.035 83
360	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	360	+0.048

φ	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
—30°	h m 4 45.4	h m 4 38.8	h m 4 31.8	h m 4 24.4	h m 4 16.5	h m 4 8.1	h m 3 58.9	h m 3 48.9	h m 3 37.9	h m 3 25.7	h m 3 11.8
29	4 48.6	4 42.3	4 35.6	4 28.6	4 21.1	4 13.0	4 4.3	3 54.9	3 44.5	3 33.0	3 20.1
28	4 51.7	4 45.7	4 39.3	4 32.6	4 25.5	4 17.8	4 9.6	4 0.7	3 50.9	3 40.1	3 28.0
27	4 54.7	4 49.0	4 42.9	4 36.5	4 29.8	4 22.5	4 14.7	4 6.2	3 57.0	3 46.9	3 35.5
26	4 57.7	4 52.2	4 46.5	4 40.4	4 33.9	4 27.1	4 19.7	4 11.7	4 3.0	3 53.4	3 42.8
25	5 0.6	4 55.4	4 49.9	4 44.2	4 38.0	4 31.5	4 24.5	4 16.9	4 8.7	3 59.7	3 49.7
24	5 3.5	4 58.5	4 53.3	4 47.8	4 42.0	4 35.8	4 29.2	4 22.0	4 14.3	4 5.8	3 56.5
23	5 6.3	5 1.6	4 56.6	4 51.4	4 45.9	4 40.1	4 33.8	4 27.0	4 19.7	4 11.8	4 3.0
22	5 9.0	5 4.6	4 59.9	4 55.0	4 49.7	4 44.2	4 38.3	4 31.9	4 25.0	4 17.5	4 9.3
21	5 11.7	5 7.5	5 3.1	4 58.4	4 53.5	4 48.3	4 42.7	4 36.7	4 30.2	4 23.2	4 15.4
—20	5 14.4	5 10.4	5 6.2	5 1.8	4 57.2	4 52.3	4 47.0	4 41.3	4 35.3	4 28.7	4 21.4
19	5 17.0	5 13.3	5 9.3	5 5.2	5 0.8	4 56.2	4 51.2	4 45.9	4 40.2	4 34.0	4 27.3
18	5 19.6	5 16.1	5 12.4	5 8.5	5 4.4	5 0.0	4 55.4	4 50.4	4 45.1	4 39.3	4 33.0
17	5 22.2	5 18.9	5 15.4	5 11.7	5 7.9	5 3.8	4 59.5	4 54.9	4 49.9	4 44.5	4 38.6
16	5 24.7	5 21.6	5 18.4	5 14.9	5 11.4	5 7.5	5 3.5	4 59.2	4 54.6	4 49.5	4 44.1
15	5 27.2	5 24.3	5 21.3	5 18.1	5 14.8	5 11.2	5 7.5	5 3.5	4 59.2	4 54.5	4 49.5
14	5 29.7	5 27.0	5 24.2	5 21.3	5 18.2	5 14.9	5 11.4	5 7.7	5 3.7	4 59.5	4 54.8
13	5 32.1	5 29.7	5 27.1	5 24.4	5 21.5	5 18.5	5 15.3	5 11.9	5 8.2	5 4.3	5 0.0
12	5 34.6	5 32.3	5 29.9	5 27.4	5 24.8	5 22.1	5 19.1	5 16.0	5 12.6	5 9.0	5 5.1
11	5 37.0	5 34.9	5 32.7	5 30.5	5 28.1	5 25.6	5 22.9	5 20.1	5 17.0	5 13.7	5 10.2
—10	5 39.4	5 37.5	5 35.5	5 33.5	5 31.3	5 29.1	5 26.7	5 24.1	5 21.4	5 18.4	5 15.2
9	5 41.7	5 40.1	5 38.3	5 36.5	5 34.6	5 32.5	5 30.4	5 28.1	5 25.7	5 23.0	5 20.2
8	5 44.1	5 42.6	5 41.1	5 39.5	5 37.8	5 36.0	5 34.1	5 32.1	5 29.9	5 27.6	5 25.1
7	5 46.4	5 45.2	5 43.8	5 42.4	5 41.0	5 39.4	5 37.8	5 36.0	5 34.2	5 32.2	5 30.0
6	5 48.8	5 47.7	5 46.6	5 45.4	5 44.1	5 42.8	5 41.4	5 40.0	5 38.4	5 36.7	5 34.9
5	5 51.1	5 50.2	5 49.3	5 48.3	5 47.3	5 46.2	5 45.1	5 43.9	5 42.6	5 41.2	5 39.7
4	5 53.4	5 52.7	5 52.0	5 51.2	5 50.4	5 49.6	5 48.7	5 47.8	5 46.8	5 45.7	5 44.5
3	5 55.8	5 55.2	5 54.7	5 54.1	5 53.6	5 53.0	5 52.3	5 51.6	5 50.9	5 50.1	5 49.3
2	5 58.1	5 57.7	5 57.4	5 57.1	5 56.7	5 56.3	5 55.9	5 55.5	5 55.1	5 54.6	5 54.1
—1	6 0.4	6 0.2	6 0.1	6 0.0	5 59.8	5 59.7	5 59.5	5 59.4	5 59.2	5 59.0	5 58.9
0	6 2.7	6 2.7	6 2.8	6 2.9	6 2.9	6 3.0	6 3.1	6 3.2	6 3.4	6 3.5	6 3.6
+1	6 5.0	6 5.2	6 5.5	6 5.8	6 6.1	6 6.4	6 6.7	6 7.1	6 7.5	6 7.9	6 8.4
2	6 7.3	6 7.7	6 8.2	6 8.7	6 9.2	6 9.8	6 10.3	6 11.0	6 11.6	6 12.4	6 13.2
3	6 9.6	6 10.3	6 10.9	6 11.6	6 12.3	6 13.1	6 14.0	6 14.8	6 15.8	6 16.8	6 18.0
4	6 11.9	6 12.8	6 13.6	6 14.5	6 15.5	6 16.5	6 17.6	6 18.7	6 20.0	6 21.3	6 22.8
5	6 14.3	6 15.3	6 16.4	6 17.5	6 18.6	6 19.9	6 21.2	6 22.6	6 24.2	6 25.8	6 27.6
6	6 16.6	6 17.8	6 19.1	6 20.4	6 21.8	6 23.3	6 24.9	6 26.6	6 28.4	6 30.4	6 32.5
7	6 19.0	6 20.4	6 21.8	6 23.4	6 25.0	6 26.7	6 28.6	6 30.5	6 32.6	6 34.9	6 37.4
8	6 21.3	6 22.9	6 24.6	6 26.4	6 28.2	6 30.2	6 32.3	6 34.5	6 36.9	6 39.5	6 42.3
9	6 23.7	6 25.5	6 27.4	6 29.4	6 31.4	6 33.7	6 36.0	6 38.5	6 41.2	6 44.1	6 47.3
10	6 26.1	6 28.1	6 30.2	6 32.4	6 34.7	6 37.2	6 39.8	6 42.5	6 45.6	6 48.8	6 52.3
+11	6 28.5	6 30.7	6 33.0	6 35.4	6 38.0	6 40.7	6 43.6	6 46.6	6 49.9	6 53.5	6 57.4
12	6 31.0	6 33.4	6 35.9	6 38.5	6 41.3	6 44.3	6 47.4	6 50.8	6 54.4	6 58.3	7 2.5
13	6 33.4	6 36.0	6 38.8	6 41.6	6 44.7	6 47.9	6 51.3	6 54.9	6 58.9	7 3.1	7 7.8
14	6 35.9	6 38.7	6 41.7	6 44.8	6 48.0	6 51.5	6 55.2	6 59.2	7 3.4	7 8.0	7 13.1
15	6 38.4	6 41.4	6 44.6	6 47.9	6 51.5	6 55.2	6 59.2	7 3.5	7 8.1	7 13.0	7 18.5
16	6 41.0	6 44.2	6 47.6	6 51.2	6 54.9	6 58.9	7 3.2	7 7.8	7 12.7	7 18.1	7 23.9
17	6 43.5	6 47.0	6 50.6	6 54.4	6 58.5	7 2.7	7 7.3	7 12.2	7 17.5	7 23.3	7 29.5
18	6 46.1	6 49.8	6 53.7	6 57.7	7 2.0	7 6.6	7 11.5	7 16.7	7 22.4	7 28.5	7 35.3
19	6 48.8	6 52.7	6 56.8	7 1.1	7 5.7	7 10.5	7 15.7	7 21.3	7 27.4	7 33.9	7 41.1
20	6 51.5	6 55.6	6 59.9	7 4.5	7 9.4	7 14.5	7 20.1	7 26.0	7 32.4	7 39.4	7 47.1
+21	6 54.2	6 58.6	7 3.1	7 8.0	7 13.1	7 18.6	7 24.5	7 30.8	7 37.6	7 45.1	7 53.3
22	6 56.9	7 1.6	7 6.4	7 11.5	7 17.0	7 22.8	7 29.0	7 35.7	7 42.9	7 50.9	7 59.6
23	6 59.8	7 4.6	7 9.7	7 15.1	7 20.9	7 27.0	7 33.6	7 40.7	7 48.4	7 56.8	8 6.1
24	7 2.6	7 7.7	7 13.1	7 18.8	7 24.9	7 31.3	7 38.3	7 45.8	7 54.0	8 2.9	8 12.9
25	7 5.6	7 10.9	7 16.6	7 22.6	7 29.0	7 35.8	7 43.1	7 51.1	7 59.8	8 9.3	8 19.9
26	7 8.5	7 14.2	7 20.1	7 26.4	7 33.2	7 40.4	7 48.1	7 56.5	8 5.7	8 15.8	8 27.1
27	7 11.6	7 17.5	7 23.8	7 30.4	7 37.5	7 45.0	7 53.2	8 2.1	8 11.8	8 22.6	8 34.7
28	7 14.7	7 20.9	7 27.5	7 34.4	7 41.9	7 49.9	7 58.5	8 7.9	8 18.2	8 29.7	8 42.6
29	7 17.9	7 24.4	7 31.3	7 38.6	7 46.4	7 54.8	8 3.9	8 13.9	8 24.8	8 37.1	8 51.0
+30	7 21.2	7 28.0	7 35.2	7 42.9	7 51.1	7 59.9	8 9.5	8 20.1	8 31.7	8 44.8	8 59.7

$\delta \backslash \varphi$	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
—30°	^h 3 11.8	^h 3 4.1	^h 2 55.8	^h 2 46.8	^h 2 36.9	^h 2 25.9	^h 2 13.5	^h 1 59.3	^h 1 42.4	^h 1 21.1	^h 0 49.7
29	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1	2 27.1	2 14.7	2 0.4	1 43.4	1 21.9
28	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3	2 39.4	2 28.4	2 15.9	2 1.6	1 44.5
27	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8	2 50.8	2 40.8	2 29.8	2 17.3	2 2.9
26	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6	3 1.4	2 52.4	2 42.4	2 31.3	2 18.8
25	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9	3 11.3	3 3.1	2 54.1	2 44.1	2 33.0
24	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8	3 20.8	3 13.2	3 5.0	2 56.0	2 46.0
23	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2	3 29.8	3 22.8	3 15.3	3 7.1	2 58.0
22	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3	3 38.4	3 31.9	3 25.0	3 17.5	3 9.3
21	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2	3 46.6	3 40.7	3 34.3	3 27.4	3 19.9
—20	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.8	3 54.6	3 49.1	3 43.2	3 36.9	3 30.0
19	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1	4 2.3	3 57.2	3 51.8	3 45.9	3 39.6
18	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2	4 9.8	4 5.1	4 0.1	3 54.7	3 48.9
17	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1	4 17.0	4 12.7	4 8.1	4 3.1	3 57.8
16	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9	4 24.1	4 20.1	4 15.9	4 11.3	4 6.4
15	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5	4 31.0	4 27.4	4 23.4	4 19.3	4 14.8
14	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0	4 37.8	4 34.4	4 30.8	4 27.0	4 22.9
13	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4	4 44.5	4 41.4	4 38.1	4 34.6	4 30.9
12	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7	4 51.0	4 48.2	4 45.2	4 42.0	4 38.7
11	5 10.2	5 8.3	5 6.4	5 4.3	5 2.1	4 59.8	4 57.4	4 54.9	4 52.2	4 49.3	4 46.3
—10	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9	5 3.7	5 1.5	4 59.1	4 56.5	4 53.8
9	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9	5 10.0	5 8.0	5 5.8	5 3.6	5 1.2
8	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9	5 16.2	5 14.4	5 12.5	5 10.6	5 8.5
7	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8	5 22.3	5 20.8	5 19.2	5 17.5	5 15.7
6	5 34.9	5 33.9	5 32.9	5 31.8	5 30.7	5 29.6	5 28.4	5 27.1	5 25.7	5 24.3	5 22.8
5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4	5 34.4	5 33.4	5 32.2	5 31.1	5 29.9
4	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2	5 40.4	5 39.6	5 38.7	5 37.8	5 36.9
3	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9	5 46.3	5 45.8	5 45.2	5 44.5	5 43.8
2	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6	5 52.3	5 52.0	5 51.6	5 51.2	5 50.8
—1	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3	5 58.2	5 58.1	5 58.0	5 57.9	5 57.7
0	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1	6 4.2	6 4.3	6 4.4	6 4.5	6 4.7
+1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8	6 10.1	6 10.4	6 10.8	6 11.2	6 11.6
2	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5	6 16.0	6 16.6	6 17.2	6 17.8	6 18.5
3	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2	6 22.0	6 22.8	6 23.6	6 24.6	6 25.5
4	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0	6 28.0	6 29.0	6 30.1	6 31.3	6 32.5
5	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8	6 34.0	6 35.3	6 36.6	6 38.1	6 39.6
6	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7	6 40.1	6 41.6	6 43.2	6 44.9	6 46.7
7	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6	6 46.2	6 48.0	6 49.8	6 51.8	6 53.9
8	6 42.3	6 43.8	6 45.3	6 47.0	6 48.7	6 50.5	6 52.4	6 54.4	6 56.5	6 58.8	7 1.2
9	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5	6 58.7	7 0.9	7 3.3	7 5.9	7 8.6
10	6 52.3	6 54.2	6 56.1	6 58.2	7 0.3	7 2.6	7 5.0	7 7.5	7 10.2	7 13.1	7 16.2
+11	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8	7 11.4	7 14.2	7 17.2	7 20.4	7 23.8
12	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1	7 18.0	7 21.1	7 24.3	7 27.8	7 31.5
13	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4	7 24.6	7 28.0	7 31.6	7 35.4	7 39.5
14	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9	7 31.4	7 35.1	7 39.0	7 43.2	7 47.7
15	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6	7 38.3	7 42.4	7 46.6	7 51.2	7 56.1
16	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4	7 45.4	7 49.8	7 54.4	7 59.4	8 4.7
17	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3	7 52.7	7 57.4	8 2.5	8 7.9	8 13.7
18	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4	8 0.2	8 5.3	8 10.8	8 16.6	8 23.0
19	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8	8 7.9	8 13.4	8 19.4	8 25.7	8 32.6
20	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4	8 15.9	8 21.9	8 28.3	8 35.2	8 42.8
+21	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2	8 24.2	8 30.7	8 37.6	8 45.2	8 53.5
22	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4	8 32.8	8 39.8	8 47.4	8 55.7	9 4.8
23	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9	8 41.9	8 49.5	8 57.7	9 6.8	9 16.9
24	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8	8 51.4	8 59.6	9 8.7	9 18.8	9 30.0
25	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1	9 1.4	9 10.5	9 20.5	9 31.7	9 44.4
26	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0	9 12.1	9 22.1	9 33.2	9 45.9	10 0.6
27	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5	9 23.5	9 34.6	9 47.3	10 1.9	10 19.5
28	8 42.6	8 49.8	8 57.5	9 5.8	9 14.8	9 24.8	9 35.9	9 48.5	10 3.1	10 20.5	10 42.9
29	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1	9 49.6	10 4.1	10 21.5	10 43.7	11 18.1
+30	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7	10 5.1	10 22.3	10 44.4	11 18.5	—

für den Auf- und Untergang der Sonne

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen
für den Untergang

Tag	Geographische Breite φ										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1931											
Jan. I	—62.8 ^m	—58.1 ^m	—53.2 ^m	—48.1 ^m	—42.7 ^m	—36.8 ^m	—30.5 ^m	—23.8 ^m	—16.5 ^m	—8.7 ^m	0.0 ^m
II	—58.8	—54.3	—49.7	—44.8	—39.8	—34.3	—28.5	—22.2	—15.4	—8.0	0.0
2I	—52.5	—48.5	—44.4	—40.0	—35.5	—30.5	—25.3	—19.8	—13.8	—7.1	0.0
3I	—44.8	—41.3	—37.7	—34.0	—30.1	—26.0	—21.4	—16.7	—11.7	—6.0	0.0
Febr. 10	—36.0	—33.3	—30.3	—27.3	—24.2	—20.8	—17.1	—13.3	—9.3	—4.8	0.0
20	—26.7	—24.7	—22.5	—20.2	—17.9	—15.4	—12.6	—9.8	—6.8	—3.5	0.0
März 2	—17.1	—15.8	—14.4	—12.9	—11.4	—9.8	—8.0	—6.2	—4.3	—2.2	0.0
12	—7.4	—6.9	—6.3	—5.6	—4.9	—4.2	—3.4	—2.7	—1.9	—0.9	0.0
22	+2.3	+2.1	+1.9	+1.9	+1.6	+1.4	+1.2	+0.9	+0.6	+0.3	0.0
April 1	+11.9	+11.0	+10.0	+9.2	+8.1	+6.9	+5.8	+4.5	+3.1	+1.6	0.0
11	+21.6	+19.9	+18.2	+16.5	+14.5	+12.4	+10.3	+8.1	+5.5	+2.9	0.0
21	+31.1	+28.6	+26.2	+23.7	+20.8	+17.9	+14.9	+11.6	+8.0	+4.2	0.0
Mai 1	+40.2	+37.1	+34.0	+30.7	+27.1	+23.3	+19.5	+15.1	+10.5	+5.5	0.0
11	+48.8	+45.2	+41.3	+37.3	+33.1	+28.4	+23.7	+18.4	+12.8	+6.7	0.0
21	+56.5	+52.4	+47.9	+43.2	+38.4	+33.1	+27.5	+21.5	+14.9	+7.8	0.0
31	+62.7	+58.2	+53.4	+48.2	+42.8	+36.9	+30.7	+24.0	+16.8	+8.8	0.0
Juni 10	+67.0	+62.1	+57.0	+51.5	+45.7	+39.5	+32.9	+25.9	+18.0	+9.5	0.0
20	+68.8	+63.8	+58.6	+52.9	+47.0	+40.7	+33.9	+26.6	+18.5	+9.8	0.0
30	+68.0	+63.0	+57.9	+52.3	+46.4	+40.1	+33.4	+26.2	+18.2	+9.6	0.0
Juli 10	+64.6	+59.8	+54.9	+49.6	+44.1	+38.1	+31.7	+24.9	+17.2	+9.1	0.0
20	+59.1	+54.7	+50.2	+45.3	+40.2	+34.7	+28.8	+22.6	+15.7	+8.2	0.0
30	+52.0	+48.0	+44.1	+39.7	+35.3	+30.4	+25.2	+19.7	+13.7	+7.1	0.0
Aug. 9	+43.8	+40.5	+37.0	+33.3	+29.6	+25.5	+21.1	+16.5	+11.5	+5.9	0.0
19	+34.9	+32.3	+29.4	+26.5	+23.5	+20.3	+16.8	+13.0	+9.1	+4.7	0.0
29	+25.6	+23.7	+21.7	+19.5	+17.2	+14.9	+12.3	+9.5	+6.7	+3.4	0.0
Sept. 8	+16.2	+14.9	+13.7	+12.3	+10.9	+9.4	+7.7	+6.0	+4.2	+2.1	0.0
18	+6.7	+6.1	+5.6	+5.0	+4.5	+3.9	+3.1	+2.5	+1.8	+0.9	0.0
28	—3.0	—2.7	—2.4	—2.2	—1.9	—1.6	—1.4	—1.0	—0.7	—0.4	0.0
Okt. 8	—12.6	—11.5	—10.4	—9.5	—8.3	—7.1	—5.9	—4.6	—3.1	—1.6	0.0
18	—22.1	—20.3	—18.5	—16.7	—14.7	—12.6	—10.4	—8.1	—5.5	—2.9	0.0
28	—31.4	—28.9	—26.4	—23.8	—21.0	—18.0	—14.9	—11.6	—8.0	—4.2	0.0
Nov. 7	—40.3	—37.2	—34.1	—30.7	—27.1	—23.2	—19.3	—15.0	—10.3	—5.5	0.0
17	—48.7	—45.0	—41.1	—37.1	—32.7	—28.2	—23.4	—18.2	—12.6	—6.7	0.0
27	—55.7	—51.5	—47.1	—42.5	—37.7	—32.4	—27.0	—21.0	—14.6	—7.7	0.0
Dez. 7	—61.0	—56.4	—51.6	—46.6	—41.3	—35.6	—29.6	—23.1	—16.1	—8.5	0.0
17	—63.9	—59.1	—54.1	—48.9	—43.3	—37.4	—31.1	—24.3	—16.9	—8.9	0.0
27	—63.9	—59.1	—54.1	—48.9	—43.3	—37.4	—31.1	—24.3	—16.9	—8.9	0.0
37	—61.2	—56.6	—51.8	—46.8	—41.5	—35.8	—29.8	—23.3	—16.1	—8.4	0.0

für den Auf- und Untergang der Sonne

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

Tag	Geographische Breite φ										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1931											
Jan. 1	0.0 ^m	+4.7 ^m	+ 9.6 ^m	+14.8 ^m	+20.5 ^m	+26.4 ^m	+32.9 ^m	+39.7 ^m	+47.1 ^m	+55.2 ^m	+64.0 ^m
11	0.0	+4.4	+ 8.9	+13.8	+18.9	+24.5	+30.3	+36.5	+43.3	+50.6	+58.5
21	0.0	+3.8	+ 7.9	+12.2	+16.7	+21.4	+26.5	+32.0	+37.7	+43.9	+50.7
31	0.0	+3.2	+ 6.6	+10.2	+13.9	+17.9	+22.1	+26.6	+31.3	+36.4	+41.9
Febr. 10	0.0	+2.5	+ 5.2	+ 8.1	+11.0	+14.2	+17.5	+20.9	+24.6	+28.6	+32.8
20	0.0	+1.8	+ 3.8	+ 5.9	+ 8.0	+10.3	+12.8	+15.2	+17.9	+20.8	+23.7
März 2	0.0	+1.2	+ 2.4	+ 3.8	+ 5.1	+ 6.5	+ 8.1	+ 9.6	+11.3	+13.0	+14.8
12	0.0	+0.5	+ 1.0	+ 1.6	+ 2.2	+ 2.8	+ 3.5	+ 4.1	+ 4.7	+ 5.5	+ 6.3
22	0.0	—0.2	—0.4	—0.5	—0.7	—1.0	—1.2	—1.4	—1.7	—2.0	—2.3
April 1	0.0	—0.9	—1.8	—2.6	—3.7	—4.7	—5.9	—7.0	—8.2	—9.6	—10.8
11	0.0	—1.5	—3.2	—4.8	—6.7	—8.5	—10.4	—12.6	—14.8	—17.2	—19.6
21	0.0	—2.2	—4.6	—7.0	—9.7	—12.4	—15.2	—18.3	—21.6	—24.9	—28.7
Mai 1	0.0	—3.0	—6.1	—9.2	—12.7	—16.3	—20.0	—24.1	—28.4	—32.9	—37.9
11	0.0	—3.6	—7.4	—11.3	—15.6	—20.1	—24.7	—29.9	—35.4	—41.1	—47.4
21	0.0	—4.2	—8.7	—13.3	—18.3	—23.7	—29.4	—35.5	—42.1	—49.2	—56.9
31	0.0	—4.7	—9.8	—15.2	—20.7	—26.9	—33.4	—40.5	—48.0	—56.3	—65.5
Juni 10	0.0	—5.1	—10.6	—16.4	—22.6	—29.1	—36.2	—44.0	—52.4	—61.7	—72.0
20	0.0	—5.3	—10.9	—16.9	—23.3	—30.2	—37.5	—45.6	—54.4	—64.0	—75.1
30	0.0	—5.2	—10.7	—16.6	—22.9	—29.6	—36.9	—44.9	—53.5	—62.9	—73.7
Juli 10	0.0	—4.9	—10.1	—15.6	—21.6	—27.9	—34.6	—41.9	—49.9	—58.7	—68.2
20	0.0	—4.4	—9.1	—14.1	—19.4	—25.0	—31.0	—37.5	—44.5	—52.0	—60.4
30	0.0	—3.8	—7.9	—12.2	—16.7	—21.5	—26.6	—32.2	—38.0	—44.4	—51.2
Aug. 9	0.0	—3.2	—6.5	—10.1	—13.9	—17.8	—22.1	—26.5	—31.2	—36.3	—41.7
19	0.0	—2.5	—5.1	—7.9	—10.9	—13.9	—17.3	—20.7	—24.4	—28.3	—32.5
29	0.0	—1.8	—3.7	—5.8	—7.9	—10.1	—12.5	—15.0	—17.6	—20.4	—23.4
Sept. 8	0.0	—1.2	—2.3	—3.7	—5.0	—6.3	—7.8	—9.4	—11.0	—12.8	—14.7
18	0.0	—0.5	—0.9	—1.6	—2.1	—2.6	—3.2	—3.9	—4.6	—5.3	—6.1
28	0.0	+0.2	+ 0.5	+ 0.5	+ 0.8	+ 1.1	+ 1.3	+ 1.5	+ 1.8	+ 2.1	+ 2.3
Okt. 8	0.0	+0.9	+ 1.8	+ 2.7	+ 3.7	+ 4.8	+ 5.9	+ 6.9	+ 8.2	+ 9.5	+10.7
18	0.0	+1.6	+ 3.2	+ 4.8	+ 6.6	+ 8.5	+10.4	+12.4	+14.7	+17.0	+19.4
28	0.0	+2.2	+ 4.6	+ 6.9	+ 9.5	+12.3	+15.0	+18.0	+21.3	+24.6	+28.2
Nov. 7	0.0	+2.9	+ 6.0	+ 9.0	+12.5	+16.0	+19.8	+23.6	+27.9	+32.3	+37.3
17	0.0	+3.6	+ 7.3	+11.1	+15.3	+19.6	+24.3	+29.2	+34.5	+40.1	+46.2
27	0.0	+4.1	+ 8.4	+13.0	+17.8	+22.9	+28.4	+34.3	+40.5	+47.3	+54.7
Dez. 7	0.0	+4.6	+ 9.3	+14.5	+19.8	+25.5	+31.7	+38.2	+45.4	+53.1	+61.4
17	0.0	+4.8	+ 9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.2	+56.3	+65.5
27	0.0	+4.8	+ 9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.2	+56.5	+65.7
37	0.0	+4.6	+ 9.3	+14.4	+19.8	+25.7	+31.9	+38.4	+45.5	+53.3	+61.8

Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen
für den Untergang

$t^*)$	Geographische Breite φ										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
3 20 ^m	—94.6	—87.9	—80.9	—73.4	—65.5	—56.9	—47.6	—37.5	—26.4	—14.0	0.0
3 30	—88.5	—82.2	—75.6	—68.5	—61.0	—52.9	—44.2	—34.8	—24.4	—12.9	0.0
3 40	—82.5	—76.5	—70.3	—63.7	—56.6	—49.1	—41.0	—32.2	—22.5	—11.9	0.0
3 50	—76.6	—71.0	—65.2	—59.0	—52.4	—45.3	—37.8	—29.6	—20.7	—10.9	0.0
4 0	—70.8	—65.6	—60.1	—54.4	—48.2	—41.7	—34.7	—27.2	—18.9	—9.9	0.0
4 10	—65.1	—60.3	—55.2	—49.9	—44.2	—38.2	—31.7	—24.8	—17.3	—9.0	0.0
4 20	—59.5	—55.0	—50.3	—45.5	—40.3	—34.8	—28.9	—22.5	—15.7	—8.2	0.0
4 30	—54.0	—49.9	—45.6	—41.2	—36.5	—31.4	—26.1	—20.4	—14.1	—7.4	0.0
4 40	—48.4	—44.8	—40.9	—36.9	—32.7	—28.2	—23.3	—18.2	—12.6	—6.6	0.0
4 50	—43.0	—39.8	—36.4	—32.7	—29.0	—24.9	—20.7	—16.1	—11.2	—5.8	0.0
5 0	—37.7	—34.8	—31.8	—28.6	—25.3	—21.8	—18.1	—14.1	—9.8	—5.0	0.0
5 10	—32.4	—29.9	—27.3	—24.6	—21.7	—18.7	—15.5	—12.1	—8.4	—4.3	0.0
5 20	—27.1	—25.0	—22.8	—20.6	—18.2	—15.6	—12.9	—10.2	—7.0	—3.6	0.0
5 30	—21.9	—20.2	—18.4	—16.6	—14.7	—12.6	—10.4	—8.1	—5.6	—2.9	0.0
5 40	—16.7	—15.4	—14.0	—12.6	—11.2	—9.6	—7.9	—6.2	—4.3	—2.2	0.0
5 50	—11.5	—10.6	—9.7	—8.7	—7.7	—6.6	—5.5	—4.2	—2.9	—1.5	0.0
6 0	—6.4	—5.8	—5.4	—4.8	—4.2	—3.6	—3.0	—2.3	—1.6	—0.9	0.0
6 10	—1.2	—1.1	—1.0	—0.9	—0.8	—0.7	—0.6	—0.4	—0.3	—0.2	0.0
6 20	+4.0	+3.7	+3.4	+3.0	+2.6	+2.3	+1.9	+1.5	+1.0	+0.5	0.0
6 30	+9.1	+8.4	+7.7	+6.9	+6.1	+5.3	+4.4	+3.4	+2.4	+1.2	0.0
6 40	+14.3	+13.2	+12.0	+10.8	+9.6	+8.2	+6.8	+5.3	+3.7	+1.9	0.0
6 50	+19.5	+18.0	+16.4	+14.8	+13.1	+11.2	+9.3	+7.2	+5.0	+2.6	0.0
7 0	+24.7	+22.8	+20.9	+18.8	+16.6	+14.2	+11.8	+9.1	+6.3	+3.3	0.0
7 10	+30.0	+27.7	+25.3	+22.8	+20.1	+17.3	+14.3	+11.1	+7.7	+4.0	0.0
7 20	+35.3	+32.6	+29.7	+26.8	+23.7	+20.3	+16.8	+13.1	+9.1	+4.7	0.0
7 30	+40.6	+37.5	+34.3	+30.9	+27.3	+23.4	+19.4	+15.1	+10.5	+5.5	0.0
7 40	+45.9	+42.5	+38.9	+35.0	+31.0	+26.6	+22.1	+17.2	+12.0	+6.2	0.0
7 50	+51.4	+47.6	+43.5	+39.2	+34.7	+29.9	+24.8	+19.3	+13.5	+7.0	0.0
8 0	+56.9	+52.7	+48.2	+43.5	+38.5	+33.2	+27.6	+21.5	+15.0	+7.8	0.0
8 10	+62.5	+57.9	+53.0	+47.9	+42.4	+36.6	+30.4	+23.8	+16.6	+8.6	0.0
8 20	+68.2	+63.2	+57.9	+52.3	+46.4	+40.1	+33.3	+26.1	+18.2	+9.5	0.0
8 30	+74.0	+68.5	+62.9	+56.9	+50.5	+43.7	+36.4	+28.5	+19.8	+10.5	0.0
8 40	+79.8	+74.0	+67.9	+61.5	+54.7	+47.3	+39.5	+30.9	+21.6	+11.4	0.0
8 50	+85.8	+79.6	+73.1	+66.3	+59.0	+51.1	+42.7	+33.5	+23.5	+12.5	0.0
9 0	+91.9	+85.3	+78.4	+71.2	+63.4	+55.0	+46.0	+36.3	+25.5	+13.5	0.0

*) t ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination,
beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen
für den Untergang

$t^*)$	Geographische Breite φ										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
^h ^m	^m	^m	^m	^m	^m	^m	^m	^m	^m	^m	^m
3 20	0.0	+7.7	+16.1	+25.2	+35.1	+46.1	+58.4	+72.5	+89.1	+109.7	+138.1
3 30	0.0	+7.1	+14.7	+22.9	+31.8	+41.6	+52.4	+64.5	+78.3	+94.5	+114.3
3 40	0.0	+6.5	+13.4	+20.9	+28.9	+37.6	+47.2	+57.7	+69.4	+82.7	+98.2
3 50	0.0	+5.9	+12.2	+19.0	+26.2	+34.0	+42.5	+51.7	+61.9	+73.3	+86.1
4 0	0.0	+5.4	+11.1	+17.2	+23.7	+30.8	+38.2	+46.3	+55.2	+65.0	+76.0
4 10	0.0	+4.9	+10.1	+15.6	+21.4	+27.7	+34.4	+41.6	+49.4	+57.9	+67.3
4 20	0.0	+4.5	+9.1	+14.0	+19.2	+24.8	+30.8	+37.2	+44.0	+51.5	+59.6
4 30	0.0	+4.0	+8.1	+12.5	+17.2	+22.2	+27.5	+33.1	+39.1	+45.7	+52.7
4 40	0.0	+3.5	+7.3	+11.2	+15.3	+19.7	+24.3	+29.3	+34.5	+40.2	+46.3
4 50	0.0	+3.1	+6.4	+9.8	+13.4	+17.3	+21.4	+25.6	+30.2	+35.1	+40.4
5 0	0.0	+2.7	+5.5	+8.5	+11.6	+15.0	+18.5	+22.2	+26.1	+30.3	+34.8
5 10	0.0	+2.3	+4.7	+7.2	+10.0	+12.8	+15.7	+18.9	+22.2	+25.7	+29.5
5 20	0.0	+2.0	+3.9	+6.0	+8.3	+10.7	+13.1	+15.7	+18.4	+21.3	+24.4
5 30	0.0	+1.6	+3.2	+4.8	+6.7	+8.5	+10.5	+12.6	+14.8	+17.1	+19.6
5 40	0.0	+1.2	+2.4	+3.7	+5.0	+6.5	+7.9	+9.5	+11.2	+13.0	+14.8
5 50	0.0	+0.8	+1.7	+2.6	+3.4	+4.4	+5.5	+6.5	+7.7	+8.9	+10.2
6 0	0.0	+0.5	+0.9	+1.4	+1.9	+2.4	+3.0	+3.6	+4.2	+4.9	+5.6
6 10	0.0	+0.1	+0.2	+0.2	+0.4	+0.5	+0.6	+0.7	+0.8	+0.9	+1.1
6 20	0.0	-0.3	-0.6	-0.9	-1.2	-1.5	-1.9	-2.3	-2.6	-3.0	-3.5
6 30	0.0	-0.6	-1.3	-2.0	-2.7	-3.5	-4.3	-5.2	-6.0	-7.0	-8.0
6 40	0.0	-1.0	-2.1	-3.1	-4.3	-5.5	-6.8	-8.1	-9.5	-11.0	-12.6
6 50	0.0	-1.3	-2.9	-4.3	-5.9	-7.5	-9.4	-11.2	-13.1	-15.1	-17.3
7 0	0.0	-1.7	-3.6	-5.5	-7.5	-9.6	-11.9	-14.2	-16.7	-19.3	-22.2
7 10	0.0	-2.1	-4.4	-6.7	-9.2	-11.7	-14.5	-17.4	-20.4	-23.7	-27.1
7 20	0.0	-2.5	-5.1	-7.9	-10.8	-13.8	-17.1	-20.6	-24.2	-28.1	-32.3
7 30	0.0	-2.9	-6.0	-9.2	-12.6	-16.1	-19.9	-24.0	-28.2	-32.8	-37.7
7 40	0.0	-3.3	-6.9	-10.6	-14.4	-18.5	-22.9	-27.5	-32.4	-37.8	-43.4
7 50	0.0	-3.8	-7.7	-12.0	-16.3	-21.0	-25.9	-31.3	-36.9	-43.0	-49.6
8 0	0.0	-4.2	-8.7	-13.4	-18.3	-23.7	-29.2	-35.3	-41.7	-48.7	-56.3
8 10	0.0	-4.7	-9.6	-14.9	-20.4	-26.4	-32.6	-39.5	-46.8	-54.8	-63.5
8 20	0.0	-5.2	-10.6	-16.4	-22.6	-29.2	-36.3	-44.0	-52.3	-61.5	-71.6
8 30	0.0	-5.7	-11.7	-18.1	-25.0	-32.4	-40.4	-49.1	-58.6	-69.1	-81.0
8 40	0.0	-6.3	-12.9	-19.9	-27.6	-35.8	-44.9	-54.9	-65.7	-77.9	-92.1
8 50	0.0	-6.8	-14.1	-21.9	-30.5	-39.7	-49.8	-61.2	-73.8	-88.5	-106.1
9 0	0.0	-7.4	-15.4	-24.1	-33.7	-44.1	-55.3	-68.4	-83.6	-101.4	-125.9

*) t ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination,
beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

Julianische Periode

I. Anzahl der am o. Januar, 12^h Welt-Zeit, seit Anfang der Periode
verflossenen Tage

Jahr n. Chr.	o	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
o	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	<u>99951</u>	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	<u>98647</u>	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	<u>99299</u>	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am o. jedes Monats, 12^h Welt-Zeit, seit Beginn
der Schaltperiode verflossenen Tage

Jahr	Jan. o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
o	o	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Julianische Periode

I. Anzahl der am o. Januar, 12^h Welt-Zeit, seit Anfang der Periode
verflossenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971 ¹⁾	78495 ¹⁾	15019 ¹⁾
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971 ¹⁾	78495 ¹⁾	15019 ¹⁾	51544
	21	21	21	22	22	23	23	23	24	24

¹⁾ Die Zahlen geben die am —1. Jan. seit Anfang der Periode verflossenen Tage

Ia. Anzahl der am o. jedes Monats, 12^h Welt-Zeit, seit Beginn
der Schaltperiode verflossenen Tage

Jahr	Jan. o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
0	0 ²⁾	31 ²⁾	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern

²⁾ In den Jahren 1700, 1800, 1900 um 1 zu vergrößern

Julianische Periode

II. Anzahl der seit Beginn der Periode am o. jedes Monats,
12^h Welt-Zeit, verflossenen Tage

Jahr n. Chr.	Januar o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o	
1860	2400	410	441	470	501	531	562	592	623	654	684	715	745
1861		776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401	141	172	200	231	261	292	322	353	384	414	445	475
1863		506	537	565	596	626	657	687	718	749	779	810	840
1864		871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402	237	268	296	327	357	388	418	449	480	510	541	571
1866		602	633	661	692	722	753	783	814	845	875	906	936
1867		967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403	332	363	392	423	453	484	514	545	576	606	637	667
1869		698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404	063	094	122	153	183	214	244	275	306	336	367	397
1871		428	459	487	518	548	579	609	640	671	701	732	762
1872		793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405	159	190	218	249	279	310	340	371	402	432	463	493
1874		524	555	583	614	644	675	705	736	767	797	828	858
1875		889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406	254	285	314	345	375	406	436	467	498	528	559	589
1877		620	651	679	710	740	771	801	832	863	893	924	954
1878		985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407	350	381	409	440	470	501	531	562	593	623	654	684
1880		715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408	081	112	140	171	201	232	262	293	324	354	385	415
1882		446	477	505	536	566	597	627	658	689	719	750	780
1883		811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409	176	207	236	267	297	328	358	389	420	450	481	511
1885		542	573	601	632	662	693	723	754	785	815	846	876
1886		907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410	272	303	331	362	392	423	453	484	515	545	576	606
1888		637	668	697	728	758	789	819	850	881	911	942	972
1889	2411	003	034	062	093	123	154	184	215	246	276	307	337
1890		368	399	427	458	488	519	549	580	611	641	672	702
1891		733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412	098	129	158	189	219	250	280	311	342	372	403	433
1893		464	495	523	554	584	615	645	676	707	737	768	798
1894		829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413	194	225	253	284	314	345	375	406	437	467	498	528
1896		559	590	619	650	680	711	741	772	803	833	864	894
1897		925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414	290	321	349	380	410	441	471	502	533	563	594	624
1899		655	686	714	745	775	806	836	867	898	928	959	989

Julianische Periode

II. Anzahl der seit Beginn der Periode am o. jedes Monats,
12^h Welt-Zeit, verfloßenen Tage

Jahr n. Chr.	Januar o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o	
1900	2415	020	051	079	110	140	171	201	232	263	293	324	354
1901		385	416	444	475	505	536	566	597	628	658	689	719
1902		750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416	115	146	174	205	235	266	296	327	358	388	419	449
1904		480	511	540	571	601	632	662	693	724	754	785	815
1905		846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417	211	242	270	301	331	362	392	423	454	484	515	545
1907		576	607	635	666	696	727	757	788	819	849	880	910
1908		941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418	307	338	366	397	427	458	488	519	550	580	611	641
1910		672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419	037	068	096	127	157	188	218	249	280	310	341	371
1912		402	433	462	493	523	554	584	615	646	676	707	737
1913		768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420	133	164	192	223	253	284	314	345	376	406	437	467
1915		498	529	557	588	618	649	679	710	741	771	802	832
1916		863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421	229	260	288	319	349	380	410	441	472	502	533	563
1918		594	625	653	684	714	745	775	806	837	867	898	928
1919		959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422	324	355	384	415	445	476	506	537	568	598	629	659
1921		690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423	055	086	114	145	175	206	236	267	298	328	359	389
1923		420	451	479	510	540	571	601	632	663	693	724	754
1924		785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424	151	182	210	241	271	302	332	363	394	424	455	485
1926		516	547	575	606	636	667	697	728	759	789	820	850
1927		881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425	246	277	306	337	367	398	428	459	490	520	551	581
1929		612	643	671	702	732	763	793	824	855	885	916	946
1930		977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426	342	373	401	432	462	493	523	554	585	615	646	676
1932		707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427	073	104	132	163	193	224	254	285	316	346	377	407
1934		438	469	497	528	558	589	619	650	681	711	742	772
1935		803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428	168	199	228	259	289	320	350	381	412	442	473	503
1937		534	565	593	624	654	685	715	746	777	807	838	868
1938		899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429	264	295	323	354	384	415	445	476	507	537	568	598

Red.	0 ^m	1 ^m	2 ^m	3 ^m	Red.		Red.	
0	h m s	h m s	h m s	h m s	0.00	m s	s m s	
1	0 0 0	6 5 15	12 10 29	18 15 44	0.01	0 0	0.50	3 3
2	0 6 5	6 11 20	12 16 34	18 21 49	0.02	0 4	0.51	3 6
3	0 12 10	6 17 25	12 22 40	18 27 54	0.03	0 7	0.52	3 10
4	0 18 16	6 23 30	12 28 45	18 33 59	0.04	0 11	0.53	3 14
5	0 24 21	6 29 36	12 34 50	18 40 5	0.05	0 15	0.54	3 17
6	0 30 26	6 35 41	12 40 55	18 46 10	0.06	0 18	0.55	3 21
7	0 36 31	6 41 46	12 47 1	18 52 15	0.07	0 22	0.56	3 25
8	0 42 37	6 47 51	12 53 6	18 58 20	0.08	0 26	0.57	3 28
9	0 48 42	6 53 56	12 59 11	19 4 26	0.09	0 29	0.58	3 32
10	0 54 47	7 0 2	13 5 16	19 10 31	0.10	0 33	0.59	3 35
11	1 0 52	7 6 7	13 11 21	19 16 36	0.11	0 37	0.60	3 39
12	1 6 58	7 12 12	13 17 27	19 22 41	0.12	0 40	0.61	3 43
13	1 13 3	7 18 17	13 23 32	19 28 47	0.13	0 44	0.62	3 46
14	1 19 8	7 24 23	13 29 37	19 34 52	0.14	0 47	0.63	3 50
15	1 25 13	7 30 28	13 35 42	19 40 57	0.15	0 51	0.64	3 54
16	1 31 19	7 36 33	13 41 48	19 47 2	0.16	0 55	0.65	3 57
17	1 37 24	7 42 38	13 47 53	19 53 7	0.17	0 58	0.66	4 1
18	1 43 29	7 48 44	13 53 58	19 59 13	0.18	1 2	0.67	4 5
19	1 49 34	7 54 49	14 0 3	20 5 18	0.19	1 6	0.68	4 8
20	1 55 40	8 0 54	14 6 9	20 11 23	0.20	1 9	0.69	4 12
21	2 1 45	8 6 59	14 12 14	20 17 28	0.21	1 13	0.70	4 16
22	2 7 50	8 13 5	14 18 19	20 23 34	0.22	1 17	0.71	4 19
23	2 13 55	8 19 10	14 24 24	20 29 39	0.23	1 20	0.72	4 23
24	2 20 1	8 25 15	14 30 30	20 35 44	0.24	1 24	0.73	4 27
25	2 26 6	8 31 20	14 36 35	20 41 49	0.25	1 28	0.74	4 30
26	2 32 11	8 37 26	14 42 40	20 47 55	0.26	1 31	0.75	4 34
27	2 38 16	8 43 31	14 48 45	20 54 0	0.27	1 35	0.76	4 38
28	2 44 22	8 49 36	14 54 51	21 0 5	0.28	1 39	0.77	4 41
29	2 50 27	8 55 41	15 0 56	21 6 10	0.29	1 42	0.78	4 45
30	2 56 32	9 1 47	15 7 1	21 12 16	0.30	1 46	0.79	4 49
31	3 2 37	9 7 52	15 13 6	21 18 21	0.31	1 50	0.80	4 52
32	3 8 43	9 13 57	15 19 12	21 24 26	0.32	1 53	0.81	4 56
33	3 14 48	9 20 2	15 25 17	21 30 31	0.33	1 57	0.82	4 59
34	3 20 53	9 26 8	15 31 22	21 36 37	0.34	2 1	0.83	5 3
35	3 26 58	9 32 13	15 37 27	21 42 42	0.35	2 4	0.84	5 7
36	3 33 3	9 38 18	15 43 33	21 48 47	0.36	2 8	0.85	5 10
37	3 39 9	9 44 23	15 49 38	21 54 52	0.37	2 11	0.86	5 14
38	3 45 14	9 50 28	15 55 43	22 0 58	0.38	2 15	0.87	5 18
39	3 51 19	9 56 34	16 1 48	22 7 3	0.39	2 19	0.88	5 21
40	3 57 24	10 2 39	16 7 54	22 13 8	0.40	2 22	0.89	5 25
41	4 3 30	10 8 44	16 13 59	22 19 13	0.41	2 26	0.90	5 29
42	4 9 35	10 14 49	16 20 4	22 25 19	0.42	2 30	0.91	5 32
43	4 15 40	10 20 55	16 26 9	22 31 24	0.43	2 33	0.92	5 36
44	4 21 45	10 27 0	16 32 14	22 37 29	0.44	2 37	0.93	5 40
45	4 27 51	10 33 5	16 38 20	22 43 34	0.45	2 41	0.94	5 43
46	4 33 56	10 39 10	16 44 25	22 49 39	0.46	2 44	0.95	5 47
47	4 40 1	10 45 16	16 50 30	22 55 45	0.47	2 48	0.96	5 51
48	4 46 6	10 51 21	16 56 35	23 1 50	0.48	2 52	0.97	5 54
49	4 52 12	10 57 26	17 2 41	23 7 55	0.49	2 55	0.98	5 58
50	4 58 17	11 3 31	17 8 46	23 14 0	0.50	2 59	0.99	6 2
51	5 4 22	11 9 37	17 14 51	23 20 6		3 3	1.00	6 5
52	5 10 27	11 15 42	17 20 56	23 26 11				
53	5 16 33	11 21 47	17 27 2	23 32 16				
54	5 22 38	11 27 52	17 33 7	23 38 21				
55	5 28 43	11 33 58	17 39 12	23 44 27				
56	5 34 48	11 40 3	17 45 17	23 50 32				
57	5 40 54	11 46 8	17 51 23	23 56 37				
58	5 46 59	11 52 13	17 57 28	24 2 42				
59	5 53 4	11 58 19	18 3 33	24 8 48				
	5 59 9	12 4 24	18 9 38	24 14 53				

Die Reduktion
ist zur mittl. Zeit
zu addieren

Red.	0 ^m	1 ^m	2 ^m	3 ^m	Red.		Red.
0	0 0 0	6 6 15	12 12 29	18 18 44	0.00	0 0	0.50 3 3
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51 3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52 3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53 3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54 3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55 3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56 3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57 3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58 3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59 3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60 3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61 3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62 3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63 3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64 3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65 3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 59	0.66 4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67 4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68 4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69 4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70 4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71 4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72 4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73 4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74 4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75 4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76 4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77 4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78 4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79 4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80 4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81 4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82 5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83 5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84 5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85 5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86 5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87 5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88 5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89 5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90 5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91 5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92 5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93 5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94 5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95 5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96 5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97 5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98 5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99 6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00 6 6
51	5 11 18	11 17 33	17 23 47	23 30 2			
52	5 17 25	11 23 39	17 29 54	23 36 8			
53	5 23 31	11 29 45	17 36 0	23 42 14			
54	5 29 37	11 35 52	17 42 6	23 48 21			
55	5 35 43	11 41 58	17 48 12	23 54 27			
56	5 41 50	11 48 4	17 54 19	24 0 33			
57	5 47 56	11 54 10	18 0 25	24 6 39			
58	5 54 2	12 0 17	18 6 31	24 12 46			
59	6 0 8	12 6 23	18 12 37	24 18 52			

Die Reduktion
ist von der Sternzeit
zu subtrahieren

m	o ^h		1 ^h		2 ^h		3 ^h		4 ^h		5 ^h		s	d
	d	a	d	a	d	a	d	a	d	a	d	a		
0	0.000000		0.041667		0.083333		0.125000		0.166667		0.208333		0	0.000000
1	.000694		.042361		.084028		.125694		.167361		.209028		1	.000012
2	.001389		.043056		.084722		.126389		.168056		.209722		2	.000023
3	.002083		.043750		.085417		.127083		.168750		.210417		3	.000035
4	.002778		.044444		.086111		.127778		.169444		.211111		4	.000046
5	0.003472		0.045139		0.086806		0.128472		0.170139		0.211806		5	0.000058
6	.004167		.045833		.087500		.129167		.170833		.212500		6	.000069
7	.004861		.046528		.088194		.129861		.171528		.213194		7	.000081
8	.005556		.047222		.088889		.130556		.172222		.213889		8	.000093
9	.006250		.047917		.089583		.131250		.172917		.214583		9	.000104
10	0.006944		0.048611		0.090278		0.131944		0.173611		0.215278		10	0.000116
11	.007639		.049306		.090972		.132639		.174306		.215972		11	.000127
12	.008333		.050000		.091667		.133333		.175000		.216667		12	.000139
13	.009028		.050694		.092361		.134028		.175694		.217361		13	.000150
14	.009722		.051389		.093056		.134722		.176389		.218056		14	.000162
15	0.010417		0.052083		0.093750		0.135417		0.177083		0.218750		15	0.000174
16	.011111		.052778		.094444		.136111		.177778		.219444		16	.000185
17	.011806		.053472		.095139		.136806		.178472		.220139		17	.000197
18	.012500		.054167		.095833		.137500		.179167		.220833		18	.000208
19	.013194		.054861		.096528		.138194		.179861		.221528		19	.000220
20	0.013889		0.055556		0.097222		0.138889		0.180556		0.222222		20	0.000231
21	.014583		.056250		.097917		.139583		.181250		.222917		21	.000243
22	.015278		.056944		.098611		.140278		.181944		.223611		22	.000255
23	.015972		.057639		.099306		.140972		.182639		.224306		23	.000266
24	.016667		.058333		.100000		.141667		.183333		.225000		24	.000278
25	0.017361		0.059028		0.100694		0.142361		0.184028		0.225694		25	0.000289
26	.018056		.059722		.101389		.143056		.184722		.226389		26	.000301
27	.018750		.060417		.102083		.143750		.185417		.227083		27	.000313
28	.019444		.061111		.102778		.144444		.186111		.227778		28	.000324
29	.020139		.061806		.103472		.145139		.186806		.228472		29	.000336
30	0.020833		0.062500		0.104167		0.145833		0.187500		0.229167		30	0.000347
31	.021528		.063194		.104861		.146528		.188194		.229861		31	.000359
32	.022222		.063889		.105556		.147222		.188889		.230556		32	.000370
33	.022917		.064583		.106250		.147917		.189583		.231250		33	.000382
34	.023611		.065278		.106944		.148611		.190278		.231944		34	.000394
35	0.024306		0.065972		0.107639		0.149306		0.190972		0.232639		35	0.000405
36	.025000		.066667		.108333		.150000		.191667		.233333		36	.000417
37	.025694		.067361		.109028		.150694		.192361		.234028		37	.000428
38	.026389		.068056		.109722		.151389		.193056		.234722		38	.000440
39	.027083		.068750		.110417		.152083		.193750		.235417		39	.000451
40	0.027778		0.069444		0.111111		0.152778		0.194444		0.236111		40	0.000463
41	.028472		.070139		.111806		.153472		.195139		.236806		41	.000475
42	.029167		.070833		.112500		.154167		.195833		.237500		42	.000486
43	.029861		.071528		.113194		.154861		.196528		.238194		43	.000498
44	.030556		.072222		.113889		.155556		.197222		.238889		44	.000509
45	0.031250		0.072917		0.114583		0.156250		0.197917		0.239583		45	0.000521
46	.031944		.073611		.115278		.156944		.198611		.240278		46	.000532
47	.032639		.074306		.115972		.157639		.199306		.240972		47	.000544
48	.033333		.075000		.116667		.158333		.200000		.241667		48	.000556
49	.034028		.075694		.117361		.159028		.200694		.242361		49	.000567
50	0.034722		0.076389		0.118056		0.159722		0.201389		0.243056		50	0.000579
51	.035417		.077083		.118750		.160417		.202083		.243750		51	.000590
52	.036111		.077778		.119444		.161111		.202778		.244444		52	.000602
53	.036806		.078472		.120139		.161806		.203472		.245139		53	.000613
54	.037500		.079167		.120833		.162500		.204167		.245833		54	.000625
55	0.038194		0.079861		0.121528		0.163194		0.204861		0.246528		55	0.000637
56	.038889		.080556		.122222		.163889		.205556		.247222		56	.000648
57	.039583		.081250		.122917		.164583		.206250		.247917		57	.000660
58	.040278		.081944		.123611		.165278		.206944		.248611		58	.000671
59	.040972		.082639		.124306		.165972		.207639		.249306		59	.000683

	6 ^b	7 ^b	8 ^b	9 ^b	10 ^b	11 ^b		
m	d	d	d	d	d	d	a	d
0	.0250000	.291667	.333333	.375000	.416667	.458333	0	.0000000
1	.250694	.292361	.334028	.375694	.417361	.459028	1	.000012
2	.251389	.293056	.334722	.376389	.418056	.459722	2	.000023
3	.252083	.293750	.335417	.377083	.418750	.460417	3	.000035
4	.252778	.294444	.336111	.377778	.419444	.461111	4	.000046
5	.253472	.295139	.336806	.378472	.420139	.461806	5	.000058
6	.254167	.295833	.337500	.379167	.420833	.462500	6	.000069
7	.254861	.296528	.338194	.379861	.421528	.463194	7	.000081
8	.255556	.297222	.338889	.380556	.422222	.463889	8	.000093
9	.256250	.297917	.339583	.381250	.422917	.464583	9	.000104
10	.256944	.298611	.340278	.381944	.423611	.465278	10	.000116
11	.257639	.299306	.340972	.382639	.424306	.465972	11	.000127
12	.258333	.300000	.341667	.383333	.425000	.466667	12	.000139
13	.259028	.300694	.342361	.384028	.425694	.467361	13	.000150
14	.259722	.301389	.343056	.384722	.426389	.468056	14	.000162
15	.260417	.302083	.343750	.385417	.427083	.468750	15	.000174
16	.261111	.302778	.344444	.386111	.427778	.469444	16	.000185
17	.261806	.303472	.345139	.386806	.428472	.470139	17	.000197
18	.262500	.304167	.345833	.387500	.429167	.470833	18	.000208
19	.263194	.304861	.346528	.388194	.429861	.471528	19	.000220
20	.263889	.305556	.347222	.388889	.430556	.472222	20	.000231
21	.264583	.306250	.347917	.389583	.431250	.472917	21	.000243
22	.265278	.306944	.348611	.390278	.431944	.473611	22	.000255
23	.265972	.307639	.349306	.390972	.432639	.474306	23	.000266
24	.266667	.308333	.350000	.391667	.433333	.475000	24	.000278
25	.267361	.309028	.350694	.392361	.434028	.475694	25	.000289
26	.268056	.309722	.351389	.393056	.434722	.476389	26	.000301
27	.268750	.310417	.352083	.393750	.435417	.477083	27	.000313
28	.269444	.311111	.352778	.394444	.436111	.477778	28	.000324
29	.270139	.311806	.353472	.395139	.436806	.478472	29	.000336
30	.270833	.312500	.354167	.395833	.437500	.479167	30	.000347
31	.271528	.313194	.354861	.396528	.438194	.479861	31	.000359
32	.272222	.313889	.355556	.397222	.438889	.480556	32	.000370
33	.272917	.314583	.356250	.397917	.439583	.481250	33	.000382
34	.273611	.315278	.356944	.398611	.440278	.481944	34	.000394
35	.274306	.315972	.357639	.399306	.440972	.482639	35	.000405
36	.275000	.316667	.358333	.400000	.441667	.483333	36	.000417
37	.275694	.317361	.359028	.400694	.442361	.484028	37	.000428
38	.276389	.318056	.359722	.401389	.443056	.484722	38	.000440
39	.277083	.318750	.360417	.402083	.443750	.485417	39	.000451
40	.277778	.319444	.361111	.402778	.444444	.486111	40	.000463
41	.278472	.320139	.361806	.403472	.445139	.486806	41	.000475
42	.279167	.320833	.362500	.404167	.445833	.487500	42	.000486
43	.279861	.321528	.363194	.404861	.446528	.488194	43	.000498
44	.280556	.322222	.363889	.405556	.447222	.488889	44	.000509
45	.281250	.322917	.364583	.406250	.447917	.489583	45	.000521
46	.281944	.323611	.365278	.406944	.448611	.490278	46	.000532
47	.282639	.324306	.365972	.407639	.449306	.490972	47	.000544
48	.283333	.325000	.366667	.408333	.450000	.491667	48	.000556
49	.284028	.325694	.367361	.409028	.450694	.492361	49	.000567
50	.284722	.326389	.368056	.409722	.451389	.493056	50	.000579
51	.285417	.327083	.368750	.410417	.452083	.493750	51	.000590
52	.286111	.327778	.369444	.411111	.452778	.494444	52	.000602
53	.286806	.328472	.370139	.411806	.453472	.495139	53	.000613
54	.287500	.329167	.370833	.412500	.454167	.495833	54	.000625
55	.288194	.329861	.371528	.413194	.454861	.496528	55	.000637
56	.288889	.330556	.372222	.413889	.455556	.497222	56	.000648
57	.289583	.331250	.372917	.414583	.456250	.497917	57	.000660
58	.290278	.331944	.373611	.415278	.456944	.498611	58	.000671
59	.290972	.332639	.374306	.415972	.457639	.499306	59	.000683

zur Berechnung der optischen Mondlibration

$\lambda - \Omega$	$\Delta\lambda$	a	B	$\lambda - \Omega$	$\lambda - \Omega$	$\Delta\lambda$	a	B	$\lambda - \Omega$
0°	+0.0+	-0.0269+	-0° 0.0+	180°	45°	+0.6+	-0.0190+	-1° 5.3+	225°
1	0.0	268	0 1.6	181	46	0.6	187	1 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5	+0.1+	-0.0268+	-0 8.0+	185	50	+0.6+	-0.0173+	-1 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	1 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	1 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
10	+0.2+	-0.0264+	-0 16.0+	190	55	+0.6+	-0.0154+	-1 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	1 16.5	236
12	0.2	263	0 19.2	192	57	0.6	146	1 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	1 19.2	239
15	+0.3+	-0.0259+	-0 23.9+	195	60	+0.5+	-0.0134+	-1 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	1 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	1 23.0	244
20	+0.4+	-0.0254+	-0 31.6+	200	65	+0.5+	-0.0114+	-1 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	1 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	1 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	1 25.6	248
24	0.5	245	0 37.6	204	69	0.4	096	1 26.2	249
25	+0.5+	-0.0243+	-0 39.0+	205	70	+0.4+	-0.0092+	-1 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	1 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	-0.0233+	-0 46.2+	210	75	+0.3+	-0.0070+	-1 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	1 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	1 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	1 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	1 30.6	259
35	+0.6+	-0.0220+	-0 53.0+	215	80	+0.2+	-0.0047+	-1 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	1 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	1 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	1 31.8	264
40	+0.6+	-0.0206+	-0 59.4+	220	85	+0.1+	-0.0023+	-1 32.0+	265
41	0.6	203	1 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	1 32.2	267
43	0.6	196	1 3.0	223	88	0.0	09	1 32.3	268
44	0.6	193	1 4.1	224	89	0.0	05	1 32.3	269
45	+0.6+	-0.0190+	-1 5.3+	225	90	+0.0+	-0.0000+	-1 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_G; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

L_G = Mittlere Länge des Mondes, Ω = Mondknoten.

zur Berechnung der optischen Mondlibration

$\lambda - \Omega$	$\Delta\lambda$	a	B	$\lambda - \Omega$	$\lambda - \Omega$	$\Delta\lambda$	a	B	$\lambda - \Omega$
90	-0.0	+0.0000	-1° 32.3+	270	135	-0.6	+0.0190	-1° 5.3+	315
91	0.0	05	1 32.3	271	136	0.6	193	1 4.1	316
92	0.0	09	1 32.3	272	137	0.6	196	1 3.0	317
93	0.1	14	1 32.2	273	138	0.6	200	1 1.8	318
94	0.1	19	1 32.1	274	139	0.6	203	1 0.6	319
95	-0.1	+0.0023	-1 32.0+	275	140	-0.6	+0.0206	-0 59.4+	320
96	0.1	28	1 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	1 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	1 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	1 31.2	279	144	0.6	217	0 54.3	324
100	-0.2	+0.0047	-1 30.9+	280	145	-0.6	+0.0220	-0 53.0+	325
101	0.2	51	1 30.6	281	146	0.6	223	0 51.6	326
102	0.2	56	1 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	1 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	1 29.6	284	149	0.5	230	0 47.6	329
105	-0.3	+0.0070	-1 29.2+	285	150	-0.5	+0.0233	-0 46.2+	330
106	0.3	74	1 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	1 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	1 27.8	288	153	0.5	239	0 41.9	333
109	0.4	87	1 27.3	289	154	0.5	241	0 40.5	334
110	-0.4	+0.0092	-1 26.8+	290	155	-0.5	+0.0243	-0 39.0+	335
111	0.4	096	1 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	1 25.6	292	157	0.4	247	0 36.1	337
113	0.4	105	1 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	1 24.4	294	159	0.4	251	0 33.1	339
115	-0.5	+0.0114	-1 23.7+	295	160	-0.4	+0.0252	-0 31.6+	340
116	0.5	118	1 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	1 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	1 20.8	299	164	0.3	258	0 25.5	344
120	-0.5	+0.0134	-1 20.0+	300	165	-0.3	+0.0259	-0 23.9+	345
121	0.5	138	1 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	1 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	1 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	1 16.5	304	169	0.2	264	0 17.6	349
125	-0.6	+0.0154	-1 15.6+	305	170	-0.2	+0.0264	-0 16.0+	350
126	0.6	158	1 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	1 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	1 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	1 11.8	309	174	0.1	267	0 9.7	354
130	-0.6	+0.0173	-1 10.7+	310	175	-0.1	+0.0268	-0 8.0+	355
131	0.6	176	1 9.7	311	176	0.1	268	0 6.4	356
132	0.6	180	1 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	1 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	1 6.4	314	179	0.0	268	0 1.6	359
135	-0.6	+0.0190	-1 5.3+	315	180	-0.0	+0.0269	-0 0.0+	360

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{\Omega}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

L_{Ω} = Mittlere Länge des Mondes, Ω = Mondknoten.

Hilfsgrößen

zur Berechnung der geozentrischen Koordinaten

$$p \sin \varphi' = s \sin \varphi; \quad p \cos \varphi' = c \cos \varphi$$

φ	$\log s$	$\log c$	φ	$\log s$	$\log c$
$\pm 0^\circ$	9.9970705	0.0000000	$\pm 40^\circ$	9.9976745	0.0006040
1	.9970709 ⁴	.0000004 ⁴	41	.9976997 ²⁵²	.0006292 ²⁵²
2	.9970723 ¹⁴	.0000018 ¹⁴	42	.9977251 ²⁵⁴	.0006546 ²⁵⁴
3	.9970745 ²²	.0000040 ²²	43	.9977506 ²⁵⁵	.0006801 ²⁵⁵
4	.9970776 ³¹	.0000071 ³¹	44	.9977761 ²⁵⁵	.0007056 ²⁵⁵
5	9.9970816 ⁴⁰	0.0000111 ⁴⁰	45	9.9978016 ²⁵⁶	0.0007311 ²⁵⁶
6	.9970865 ⁴⁹	.0000160 ⁴⁹	46	.9978272 ²⁵⁶	.0007567 ²⁵⁶
7	.9970922 ⁵⁷	.0000217 ⁵⁷	47	.9978527 ²⁵⁵	.0007822 ²⁵⁵
8	.9970988 ⁶⁶	.0000283 ⁶⁶	48	.9978782 ²⁵⁵	.0008077 ²⁵⁵
9	.9971062 ⁷⁴	.0000357 ⁷⁴	49	.9979036 ²⁵⁴	.0008331 ²⁵⁴
10	.9971145 ⁸³	0.0000440 ⁸³	50	9.9979288 ²⁵²	0.0008583 ²⁵²
11	.9971237 ⁹²	.0000532 ⁹²	51	.9979540 ²⁵²	.0008835 ²⁵²
12	.9971336 ⁹⁹	.0000631 ⁹⁹	52	.9979789 ²⁴⁹	.0009084 ²⁴⁹
13	.9971444 ¹⁰⁸	.0000739 ¹⁰⁸	53	.9980036 ²⁴⁷	.0009331 ²⁴⁷
14	.9971560 ¹¹⁶	.0000855 ¹¹⁶	54	.9980281 ²⁴⁵	.0009576 ²⁴⁵
15	.9971683 ¹²³	0.0000978 ¹²³	55	9.9980523 ²⁴²	0.0009818 ²⁴²
16	.9971814 ¹³¹	.0001109 ¹³¹	56	.9980762 ²³⁹	.0010057 ²³⁹
17	.9971953 ¹³⁹	.0001248 ¹³⁹	57	.9980997 ²³⁵	.0010292 ²³⁵
18	.9972099 ¹⁴⁶	.0001394 ¹⁴⁶	58	.9981229 ²³²	.0010524 ²³²
19	.9972253 ¹⁵⁴	.0001548 ¹⁵⁴	59	.9981457 ²²⁸	.0010752 ²²⁸
20	9.9972413 ¹⁶⁰	0.0001708 ¹⁶⁰	60	9.9981681 ²²⁴	0.0010976 ²²⁴
21	.9972581 ¹⁶⁸	.0001876 ¹⁶⁸	61	.9981901 ²²⁰	.0011196 ²²⁰
22	.9972755 ¹⁷⁴	.0002050 ¹⁷⁴	62	.9982116 ²¹⁵	.0011411 ²¹⁵
23	.9972935 ¹⁸⁰	.0002230 ¹⁸⁰	63	.9982325 ²⁰⁹	.0011620 ²⁰⁹
24	.9973122 ¹⁸⁷	.0002417 ¹⁸⁷	64	.9982530 ²⁰⁵	.0011825 ²⁰⁵
25	9.9973314 ¹⁹²	0.0002609 ¹⁹²	65	9.9982729 ¹⁹⁹	0.0012024 ¹⁹⁹
26	.9973512 ¹⁹⁸	.0002807 ¹⁹⁸	66	.9982922 ¹⁹³	.0012217 ¹⁹³
27	.9973716 ²⁰⁴	.0003011 ²⁰⁴	67	.9983110 ¹⁸⁸	.0012405 ¹⁸⁸
28	.9973925 ²⁰⁹	.0003220 ²⁰⁹	68	.9983291 ¹⁸¹	.0012586 ¹⁸¹
29	.9974139 ²¹⁴	.0003434 ²¹⁴	69	.9983466 ¹⁷⁵	.0012761 ¹⁷⁵
30	9.9974358 ²¹⁹	0.0003653 ²¹⁹	70	9.9983634 ¹⁶⁸	0.0012929 ¹⁶⁸
31	.9974581 ²²³	.0003876 ²²³	71	.9983795 ¹⁶¹	.0013090 ¹⁶¹
32	.9974808 ²²⁷	.0004103 ²²⁷	72	.9983949 ¹⁵⁴	.0013244 ¹⁵⁴
33	.9975040 ²³²	.0004335 ²³²	73	.9984096 ¹⁴⁷	.0013391 ¹⁴⁷
34	.9975275 ²³⁵	.0004570 ²³⁵	74	.9984236 ¹⁴⁰	.0013531 ¹⁴⁰
35	9.9975513 ²³⁸	0.0004808 ²³⁸	75	9.9984368 ¹³²	0.0013663 ¹³²
36	.9975754 ²⁴¹	.0005049 ²⁴¹	76	.9984492 ¹²⁴	.0013787 ¹²⁴
37	.9975999 ²⁴⁵	.0005294 ²⁴⁵	77	.9984609 ¹¹⁷	.0013904 ¹¹⁷
38	.9976245 ²⁴⁶	.0005540 ²⁴⁶	78	.9984717 ¹⁰⁸	.0014012 ¹⁰⁸
39	.9976494 ²⁴⁹	.0005789 ²⁴⁹	79	.9984817 ¹⁰⁰	.0014112 ¹⁰⁰
40	9.9976745 ²⁵¹	0.0006040 ²⁵¹	80	9.9984909 ⁹²	0.0014204 ⁹²

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Abbadia	69 ^m	+43° 22' 52.2"	+ 0 ^h 7 ^m 0.1	+ 1.15	+43° 11' 17.8"	9.999317
Åbo	—	+60 26 56.8	— 1 29 6.30	— 14.64	+60 16 58.8	9.998894
Adelaide	41	—34 55 35.1	— 9 14 19.90	— 91.06	—34 44 42.7	9.999526
Albany (N. Stw.) ¹⁾ . .	40	+42 39 12.8	+ 4 55 7.12	+ 48.48	+42 27 39.7	9.999334
Algier (N. Stw.) ²⁾ . .	345	+36 48 4.8	— 0 12 8.47	— 1.99	+36 36 58.1	9.999497
Allegheny (N. Stw.) . .	370	+40 28 58.1	+ 5 20 5.39	+ 52.59	+40 17 31.4	9.999411
Allegheny (A. Stw.) . .	349	+40 27 41.6	+ 5 20 2.97	+ 52.58	+40 16 15.0	9.999411
Amherst (Neue Stw.) . .	110	+42 21 56.5	+ 4 50 5.98	+ 47.66	+42 10 24.0	9.999346
Amherst (Alte Stw.) . .	122	+42 22 17.1	+ 4 50 4.72	+ 47.66	+42 10 44.6	9.999347
Ann Arbor	282	+42 16 48.7	+ 5 34 55.27	+ 55.02	+42 5 16.4	9.999360
Arcetri Zentr. d. St. ³⁾ .	184	+43 45 14.4	— 0 45 1.30	— 7.39	+43 33 39.5	9.999316
Arequipa ⁴⁾	2451	—16 22 28.0	+ 4 46 11.73	+ 47.02	—16 16 12.7	0.000052
Armagh	64	+54 21 11	+ 0 26 35.48	+ 4.37	+54 10 11.4	9.999041
Athen	110	+37 58 15.5	— 1 34 52.2	— 15.58	+37 47 1.2	9.999456
Bamberg (Remeis' St.) .	288	+49 53 6.0	— 0 43 33.57	— 7.15	+49 41 40.0	9.999167
Barcelona ⁵⁾	415	+41 24 59.3	— 0 8 30.2	— 1.41	+41 13 29.4	9.999391
Beloit	245	+42 30 8.4	+ 5 56 7.4	+ 58.51	+42 18 35.6	9.999352
Bergedorf Mer.-Kr. . .	41	+53 28 46.9	— 0 40 57.74	— 6.73	+53 17 40.8	9.999060
Berkeley	94	+37 52 23.5	+ 8 9 2.80	+ 80.34	+37 41 9.8	9.999458
Berlin-Babelsberg ⁶⁾ . .	82	+52 24 24.2	— 0 52 25.49	— 8.61	+52 13 11.1	9.999089
Berlin (Urania)	—	+52 31 30.7	— 0 53 27.40	— 8.78	+52 20 18.3	9.999081
Bern	573	+46 57 8.7	— 0 29 45.55	— 4.89	+46 45 34.5	9.999261
Besançon	312	+47 14 59.0	— 0 23 57.1	— 3.93	+47 3 25.3	9.999236
Bloemfontein ^{Filiale d. Detroit Obs.}	1490	—29 5 45	— 1 44 57	— 17.24	—28 55 55	9.999758
Bloemfontein ^{Boyden Stat. d. Harv. Obs.}	1379	—29 12	— 1 45 57	— 17.40	—29 2	9.999748
Bogota	2640	+ 4 35 55.2	+ 4 56 19.51	+ 48.68	+ 4 34 4.4	0.000111
Bologna Zentr. d. Stw. . .	84	+44 29 52.8	— 0 45 24.48	— 7.46	+44 18 17.3	9.999290
Bombay (Colaba)	19	+18 53 36.2	— 4 51 15.60	— 47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Stw. . . .	62	+50 43 45.0	— 0 28 23.18	— 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac) . . .	73	+44 50 7.2	+ 0 2 6.56	+ 0.35	+44 38 31.6	9.999281
Boston (University) ⁷⁾ . .	31	+42 20 58	+ 4 44 19.1	+ 46.71	+42 9 25.6	9.999341
Bothkamp ⁸⁾	32	+54 12 9.6	— 0 40 31.2	— 6.65	+54 1 8.8	9.999042
Breslau Zentr. d. Stw. . .	147	+51 6 56.5	— 1 8 8.72	— 11.19	+50 55 36.1	9.999126
Breslau Neue Sternw. . .	117	+51 6 41	— 1 8 21.19	— 11.23	+50 55 20.6	9.999130
Brisbane	51	—27 28 23.0	—10 12 6.48	—100.55	—27 18 54.6	9.999694
Brüssel ^{(Alte Sternw.) Pass. Instr.}	56	+50 51 10.7	— 0 17 28.71	— 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kr. .	105	+50 47 54.6	— 0 17 26.05	— 2.86	+50 36 32.7	9.999131
Budapest Univ. Stw. . .	110	+47 29 34.7	— 1 16 15.4	— 12.53	+47 18 1.5	9.999215

¹⁾ Dudley Observatory, seit Juni 1893. Alte Sternwarte 37°.0 nördlich, 7°.10 östlich. — ²⁾ Alte Sternwarte 3°.8 südlich, 8°. östlich. — ³⁾ Seit Oktober 1872, früher in Florenz. — ⁴⁾ 1927 geschlossen und nach Bloemfontein verlegt. — ⁵⁾ J. Comas Sold. — ⁶⁾ Die Koordinaten beziehen sich auf die Mitte der großen Kuppel, in der der große Refraktor aufgestellt ist. Die frühere Sternwarte in Berlin (seit 1835) lag 5° 52'.5 nördlich und 1°.09.31 östlich. — ⁷⁾ Die alte Sternwarte lag 4°.1 östlich, 34°.5 nördlich. — ⁸⁾ Herr von Bülow.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Budapest ¹⁾	110 ^m	+47° 28' 49"	— 1° 16' 13.7"	— 12.53	+47° 17' 16"	9.999215
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	— 1 44 27.01	— 17.16	+44 12 58.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	— 0 0 22.75	— 0.06	+52 1 37.3	9.999090
Cambridge Mass. ²⁾ .	24	+42 22 47.6	+4 44 31.05	+46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	10	— 33 56 6.8	— 1 13 54.73	— 12.14	— 33 45 23.2	9.999547
Catania	47	+37 30 13.3	— 1 0 20.6	— 9.91	+37 19 1.9	9.999466
Charkow	139	+50 0 9.9	— 2 24 55.72	— 23.81	+49 48 44.4	9.999153
Charlottenburg, ^{Techn.} ^{Hochsch.}	60	+52 30 48.7	— 0 53 20.5	— 8.76	+52 19 36.2	9.999085
Charlottesville ³⁾ . .	259	+38 2 1.2	+5 14 5.33	+51.60	+37 50 46.5	9.999464
Christiania (Oslo) Mer.-Kr.	25	+59 54 43.7	— 0 42 53.51	— 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Stw.) .	—	+39 6 26.5	+5 37 59.09	+55.52	+38 55 6.0	9.999421
Cincinnati (Neue Stw.) ⁴⁾	247	+39 8 19.8	+5 37 41.40	+55.47	+38 56 59.1	9.999437
Cleveland (Case Obs.) .	215	+41 30 14.5	+5 26 25.86	+53.63	+41 18 44.3	9.999375
Coimbra	99	+40 12 24.5	+0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri ⁵⁾ .	225	+38 56 12	+6 9 18.37	+60.67	+38 44 52.3	9.999442
Cordoba	434	— 31 25 15.5	+4 16 48.22	+42.19	— 31 14 57.5	9.999635
Danzig	3	+54 21 18.0	— 1 14 39.6	— 12.26	+54 10 18.4	9.999036
Denver ⁶⁾	1644	+39 40 36.4	+6 59 47.72	+68.96	+39 29 13.1	9.999519
Dorpat (Tartu, Jurjew) Mer.-Kr.	67	+58 22 47.2	— 1 46 53.19	— 17.56	+58 12 25.1	9.998946
Dresden (Geodät. Inst.)	168	+51 1 49.3	— 0 54 55.1	— 9.02	+50 50 28.5	9.999130
Dresden (Mathem. Salon)	—	+51 3 14.7	— 0 54 55.83	— 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) .	86	+53 23 13.1	+0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Bilk) . . .	46	+51 12 25.0	— 0 27 2.69	— 4.44	+51 1 5.1	9.999117
Durham	108	+54 46 6.2	+0 6 19.75	+ 1.04	+54 35 9.8	9.999033
Edinburgh	146	+55 55 30	+0 12 44.1	+ 2.09	+55 44 43.5	9.999008
Edinburgh (Blackf. Hill)	134	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007
Evanston (Dearborn Obs.)	175	+42 3 33.4	+5 50 42.3	+57.61	+41 52 1.6	9.999358
Flagstaff (Lowell Obs.) .	2210	+35 12 30.5	+7 26 44.6	+73.39	+35 1 35.8	9.999667
Florenz (Alte Sternw.) ⁷⁾	73	+43 46 4.1	— 0 44 59.6	— 7.39	+43 34 29.2	9.999308
Florenz (Mil. Geogr. Inst.)	72	+43 46 49.4	— 0 45 2.5	— 7.40	+43 35 14.5	9.999308
Frankfurt a. M. . . .	121	+50 7 0	— 0 34 36.3	— 5.70	+49 55 34.6	9.999149
Genf Mer.-Kreis	406	+46 11 59.3	— 0 24 36.53	— 4.04	+46 0 24.1	9.999269
Genua (Mar. Stw.) Mer.-Kr.	108	+44 25 8.1	— 0 35 41.28	— 5.86	+44 13 32.6	9.999294
Georgetown D. C. . . .	62	+38 54 26.2	+5 8 18.33	+50.65	+38 43 6.7	9.999430
Glasgow Schottl. . . .	55	+55 52 42.1	+0 17 10.55	+ 2.82	+55 41 55.2	9.999003
Glasgow Missouri . . .	228	+39 13 45.6	+6 11 18.06	+61.00	+39 2 24.5	9.999433

1) Observ. der Kgl. Josef-Technischen Hochschule. — 2) Harvard College Observatory. — 3) Leander Mc. Cormick Observatory, University of Virginia. — 4) Mount Lookout seit 1873. — 5) Laws Observatory. — 6) University Park, Chamberlin Observatory. — 7) 1872 nach Arcetri verlegt.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
Göttingen Mer.-Kreis . .	161 ^m	+51° 31' 48.2"	— 0° 39' 46.22"	— 6.53	+51° 20' 30.0"	9.999117
Gotha (Neue Stw.) Zentr. d. St. ¹⁾	322	+50° 56' 37.9"	— 0° 42' 50.51"	— 7.04	+50° 45' 16.7"	9.999142
Graz	375	+47° 4' 37.2"	— 1° 1' 47.71"	— 10.15	+46° 53' 3.2"	9.999244
Greenwich Transit Circle	47	+51° 28' 38.2"	0 0 0.00	0.00	+51° 17' 19.7"	9.999110
Groningen	4	+53° 13' 13.8"	— 0° 26' 15.11"	— 4.31	+53° 2' 6.0"	9.999064
Hamburg (Alt. Stw.) M.-Kr. ²⁾	25	+53° 33' 6.0"	— 0° 39' 53.60"	— 6.55	+53° 22' 0.4"	9.999057
Hamburg (D. Seewarte) .	30	+53° 32' 51.8"	— 0° 39' 53.42"	— 6.55	+53° 21' 46.2"	9.999058
Hanover N. H.	183	+43° 42' 15.3"	+4° 49' 8.00"	+47.50	+43° 30' 40.5"	9.999317
Haverford	116	+40° 0' 40.1"	+5° 1' 12.7"	+49.48	+39° 49' 15.4"	9.999406
Heidelberg (Wolfs Stw.)	126	+49° 24' 35"	— 0° 34' 48.4"	— 5.72	+49° 13' 7"	9.999159
Heidelberg (Königst.) M.-Kr	570	+49° 23' 54.6"	— 0° 34' 53.13"	— 5.73	+49° 12' 26.8"	9.999198
Helsingfors Mer.-Kreis .	33	+60° 9' 42.3"	— 1° 39' 49.10"	— 16.40	+59° 59' 40.8"	9.998903
Helwan	115	+29° 51' 31.1"	— 2° 5' 21.77"	— 20.59	+29° 41' 31.4"	9.999648
Hongkong	33	+22° 18' 13.2"	— 7° 36' 41.25"	— 75.02	+22° 10' 5.8"	9.999793
Hyderabad-Deccan ³⁾	554	+17° 25' 54.3"	— 5° 13' 48.98"	— 51.55	+17° 19' 17.7"	9.999907
Innsbruck	605	+47° 16' 7.7"	— 0° 45' 31.42"	— 7.48	+47° 4' 34.0"	9.999254
Jena (Univers.) Zentr. d. St.	164	+50° 55' 35.6"	— 0° 46' 20.22"	— 7.61	+50° 44' 14.3"	9.999131
Jena (Winkler)	174	+50° 56' 15.7"	— 0° 46' 20.73"	— 7.61	+50° 44' 54.5"	9.999132
Johannesburg	1786	— 26° 10' 52.1"	— 1° 52' 17.9"	— 18.45	— 26° 1' 42.0"	9.999839
Johannesburg (Filiale des Yale Observ.)	1741	— 26° 11' 14"	— 1° 52' 7"	— 18.42	— 26° 2' 4	9.999836
Kairo	—	+30° 4' 38.2"	— 2° 5' 8.80"	— 20.56	+29° 54' 35.8"	9.999635
Kalocsa ⁴⁾	102	+46° 31' 42.4"	— 1° 15' 54.34"	— 12.47	+46° 20' 7.6"	9.999239
Karlsruhe ⁵⁾	110	+49° 0' 29.6"	— 0° 33' 35.40"	— 5.52	+48° 49' 0.4"	9.999177
Kasan (Univers.)	79	+55° 47' 24.3"	— 3° 16' 29.03"	— 32.28	+55° 36' 36.6"	9.999007
Kasan (Engelhardt) . . .	98	+55° 50' 20.5"	— 3° 15' 15.74"	— 32.08	+55° 39' 33.2"	9.999007
Kew	10	+51° 28' 6"	+0° 1' 15.1"	+0.21	+51° 16' 47.5"	9.999108
Kiel Neuer Mer.-Kreis . .	52	+54° 20' 27.6"	— 0° 40' 35.45"	— 6.67	+54° 9' 27.9"	9.999040
Kiel Alter Mer.-Kreis . .	47	+54° 20' 28.5"	— 0° 40' 35.57"	— 6.67	+54° 9' 28.8"	9.999040
Kiew Mer.-Kreis	184	+50° 27' 11.8"	— 2° 2' 0.56"	— 20.04	+50° 15' 48.3"	9.999145
Kodaikanal	2343	+10° 13' 50"	— 5° 9' 52.0"	— 50.94	+10° 9' 47.6"	0.000114
Königsberg Reps. M.-Kr. ⁶⁾	22	+54° 42' 50.6"	— 1° 21' 58.98"	— 13.47	+54° 31' 53.8"	9.999029
Konstanz ⁷⁾	420	+47° 39' 43.6"	— 0° 36' 42.01"	— 6.03	+47° 28' 10.7"	9.999232
Kopenhagen (Neue Stw.) ⁸⁾	14	+55° 41' 12.6"	— 0° 50' 18.69"	— 8.26	+55° 30' 24.0"	9.999005
Kopenhagen (Urania-St.)	10	+55° 41' 19.2"	— 0° 50' 9.11"	— 8.24	+55° 30' 30.6"	9.999005
Krakau Mer.-Kreis	221	+50° 3' 51.9"	— 1° 19' 50.28"	— 13.11	+49° 52' 26.7"	9.999158
Kremsmünster Mer.-Kr.	384	+48° 3' 23.1"	— 0° 56' 31.58"	— 9.28	+47° 51' 51.1"	9.999219

1) Seit 1857, früher Seeberg. — 2) 1909 nach Bergedorf verlegt. — 3) Nizamia Observatory.
 — 4) Erzbischöfl. Haynaldsche Sternwarte. — 5) 1896 nach Heidelberg verlegt. — 6) Nach 1898, vor
 1898 0°.03 westlich. — 7) Privatsternwarte von E. Leiner. — 8) Seit 1861 Nov. 11. Alte Sternwarte
 20".3 südlich, 0°.03 westlich.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
Kyoto	55 ^m	+35° 1' 37.1"	-9° 3' 6.70"	-89.22	+34° 50' 43.9"	9.999525
Landstuhl (Fauth) . . .	385	+49 24 42.5	-0 30 16.35	- 4.97	+49 13 14.7	9.999185
La Plata Mer.-Kr. Gautier	17	-34 54 30.3	+3 51 43.74	+38.07	-34 43 38.1	9.999525
Leiden (Neue Stw.) Mer.-Kr. ¹⁾	6	+52 9 19.8	-0 17 56.15	- 2.94	+51 58 5.2	9.999090
Leipzig (Neue Stw.) Zentr. ²⁾	119	+51 20 5.9	-0 49 33.93	- 8.14	+51 8 46.7	9.999119
Lembang (Bosscha St.) .	1300	- 6 49 29.1	-7 10 27.81	-70.71	- 6 46 45.5	0.000068
Lemberg (Techn. Hochsch.)	340	+49 50 11.2	-1 36 3.40	-15.78	+49 38 45.0	9.999171
Pass. Instr. (Petersburg)	20	+59 56 29.7	-2 1 13.35	-19.91	+59 46 25.5	9.998907
Leningrad (Akad.)	4	+59 56 32.0	-2 1 11.3	-19.91	+59 46 27.8	9.998906
Leningrad (Petersburg)	94	+38 42 30.5	+0 36 44.68	+ 6.04	+38 31 12.0	9.999437
Lissabon (Tapada) . . .	—	+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Lissabon (Mar. Stw.) . .	62	+53 24 4.8	+0 12 17.33	+ 2.02	+53 12 58.2	9.999063
Liverpool (Neue Stw.) ³⁾	60	-25 58 5.5	-2 10 22.63	-21.42	-25 48 58.9	9.999725
Lourenço Marques . . .	19	+53 51 31.1	-0 42 45.6	- 7.02	+53 40 27.8	9.999049
Lübeck (Navig.-Sch.) . .	34	+55 41 51.6	-0 52 44.97	- 8.66	+55 31 3.1	9.999006
Lüttich Ougrée	128	+50 37 6	-0 22 12	- 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	-0 19 8.5	- 3.14	+45 30 5.3	9.999274
Madison (Washburn Obs.)	292	+43 4 36.8	+5 57 37.90	+58.75	+42 53 2.9	9.999340
Madras	7	+13 4 8.0	-5 20 59.65	-52.73	+12 59 2.5	9.999926
Madrid Zentr. d. Stw. . .	656	+40 24 30.1	+0 14 45.09	+ 2.43	+40 13 3.7	9.999433
Mailand, Brera	120	+45 27 59.2	-0 36 45.89	- 6.04	+45 16 23.6	9.999268
Manila	3	+14 35 25	-8 3 50	-79.48	+14 29 47	9.999908
Mannheim Zentr. d. Stw.	98	+49 29 11.0	-0 33 50.42	- 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	-0 35 4.9	- 5.76	+50 37 25.0	9.999141
Mare Island Calif. . .	18	+38 5 55.8	+8 9 5.63	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper) . .	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (N.St.) M.-Kr. ⁴⁾	75	+43 18 19.1	-0 21 34.56	- 3.54	+43 6 44.8	9.999320
Melbourne	28	-37 49 53.4	-9 39 54.17	-95.26	-37 38 39.9	9.999454
Meudon	162	+48 48 18	-0 8 55.5	- 1.46	+48 36 48	9.999185
Mexico	2277	+19 26 1.3	+6 36 26.71	+65.13	+19 18 45.9	9.999995
Middletown, Conn. . .	70	+41 33 18	+4 50 38.2	+47.74	+41 21 47.6	9.999364
Mizusawa	61	+39 8 3.4	-9 24 31.46	-92.74	+38 56 42.7	9.999424
Modena	63	+44 38 52.8	-0 43 42.8	- 7.18	+44 27 17.2	9.999285
Montreal	57	+45 30 20	+4 54 18.63	+48.35	+45 18 44.4	9.999263
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+8 6 34.86	+79.94	+37 9 15.2	9.999552
Mt. Wilson Calif. . .	1742	+34 12 59.5	+7 52 14.33	+77.57	+34 2 13.3	9.999659

1) Seit 1860. Alte Sternwarte 8°.0 nördlich, 0°.42 östlich. — 2) Seit 1861. Alte Sternwarte 14°.2 nördlich, 4°.00 westlich. — 3) Alte Sternwarte 44°.0 nördlich, 17°.1 östlich. — 4) Seit 1866. Alte Sternwarte 30°.1 südlich, 6°.2 westlich; Seehöhe 29^m.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
Moskau Mer.-Kr. . . .	142 ^m	+55° 45' 19.5"	-2° 30' 17.03"	-24.69	+55° 34' 31.5"	9.999012
Mundenheim ¹⁾ . . .	—	+49° 27' 30"	-0° 33' 44"	-5.54	+49° 16' 2"	9.999158
München West.-Kuppel	529	+48° 8' 45.5"	-0° 46' 26.02"	-7.63	+47° 57' 13.8"	9.999227
Münster	75	+51° 57' 45.8"	-0° 30' 29.66"	-5.01	+51° 46' 30.0"	9.999100
Nashville (Vanderbilt Obs.)	174	+36° 8' 58.2"	+5° 47' 12.81"	+57.04	+35° 57' 56.1"	9.999506
Natal	79	-29° 50' 46.6"	-2° 4' 1.18"	-20.37	-29° 40' 47.0"	9.999645
Neapel (Capo di M.) . .	154	+40° 51' 45.7"	-0° 57' 1.40"	-9.37	+40° 40' 17.6"	9.999387
Neuchâtel Refraktor . .	488	+46° 59' 49.5"	-0° 27' 49.57"	-4.57	+46° 48' 15.4"	9.999254
New Haven (Neue Stw.) ²⁾	40	+41° 19' 22.3"	+4° 51' 40.58"	+47.92	+41° 7' 52.7"	9.999368
New York (Rutherford)	—	+40° 43' 48.5"	+4° 55' 56.66"	+48.62	+40° 32' 20.9"	9.999380
New York (Columb. Obs.)	—	+40° 45' 23.1"	+4° 55' 53.73"	+48.61	+40° 33' 55.4"	9.999379
Nikolajew Mer.-Kr. . .	55	+46° 58' 19.3"	-2° 7' 53.98"	-21.01	+46° 46' 45.1"	9.999225
Nizza Kl. Mer.-Kr. ³⁾ . .	378	+43° 43' 16.9"	-0° 29' 12.15"	-4.79	+43° 31' 42.0"	9.999330
Northfield (Goodsell Obs.)	290	+44° 27' 41.4"	+6° 12' 35.94"	+61.21	+44° 16' 5.9"	9.999305
Oakland Californ. ⁴⁾ . .	99	+37° 47'	+8° 8' 48"	+80.30	+37° 35' 47"	9.999460
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46° 28' 36.2"	-2° 3' 2.05"	-20.21	+46° 17' 1.3"	9.999237
Odessa (Filiale Pulkowa)	—	+46° 28' 36.0"	-2° 3' 2.19"	-20.21	+46° 17' 1.1"	9.999234
Oslo (Christiania) Mer.-Kr.	25	+59° 54' 43.7"	-0° 42' 53.51"	-7.04	+59° 44' 39.2"	9.998908
Ottawa Mer.-Kr. . . .	85	+45° 23' 39.1"	+5° 2' 51.98"	+49.75	+45° 12' 3.5"	9.999267
Oxford (Radel. Obs.) . .	65	+51° 45' 33.9"	+0° 5' 3.0"	+0.83	+51° 34' 17.0"	9.999104
Oxford (Univers.) . . .	64	+51° 45' 34.2"	+0° 5' 0.4"	+0.82	+51° 34' 17.3"	9.999104
Oxford, Mississippi . .	140	+34° 22' 12.6"	+5° 58' 7.18"	+58.83	+34° 11' 25.1"	9.999546
Padua	38	+45° 24' 1.2"	-0° 47' 29.15"	-7.80	+45° 12' 25.6"	9.999263
Palermo	72	+38° 6' 44.0"	-0° 53' 25.87"	-8.78	+37° 55' 28.9"	9.999451
Paris (Obs. nat.) Mer. Cassini	59	+48° 50' 11.2"	-0° 9' 20.93"	-1.53	+48° 38' 41.5"	9.999177
Paris (Montsouris) westl. Mer.	—	+48° 49' 18.0"	-0° 9' 20.6"	-1.53	+48° 37' 48.2"	9.999174
Peking	—	+39° 54' 23.0"	-7° 45' 52.87"	-76.53	+39° 42' 58.7"	9.999401
Perth West.-Austr. . .	60	-31° 57' 10.7"	-7° 43' 21.62"	-76.12	-31° 46' 46.9"	9.999597
Petersburg (Leningrad)	20	+59° 56' 29.7"	-2° 1' 13.35"	-19.91	+59° 46' 25.5"	9.998907
Petersburg (Akademie)	—	+59° 56' 29.7"	-2° 1' 13.35"	-19.91	+59° 46' 25.5"	9.998907
Petersburg (Univers.) . .	4	+59° 56' 32.0"	-2° 1' 11.3"	-19.91	+59° 46' 27.8"	9.998906
Philadelphia ⁵⁾ . . .	74	+39° 58' 2.1"	+5° 1' 6.88"	+49.47	+39° 46' 37.5"	9.999404
Plonsk ⁶⁾	—	+52° 37' 40.0"	-1° 21' 31.9"	-13.39	+52° 26' 28.2"	9.999078
Pola	32	+44° 51' 48.6"	-0° 55' 23.07"	-9.10	+44° 40' 12.9"	9.999277
Porto Alegre ⁷⁾ Mer.-Kr.	—	-30° 1' 51"	+3° 24' 53.2"	+33.66	-29° 51' 49"	9.999636
Portsmouth	—	+50° 48' 3"	+0° 4' 24.8"	+0.73	+50° 36' 41"	9.999124
Posen	85	+52° 23' 48.6"	-1° 7' 30.60"	-11.09	+52° 12' 35.4"	9.999090

¹⁾ Dr. Max Münder. — ²⁾ Yale University. Alte Sternwarte 45".8 südlich, 1".58 westlich. —

³⁾ Herr R. Bischofsheim. — ⁴⁾ Chabot Observatory. — ⁵⁾ Flower Obs. (Univ. of Pennsylvania). —

⁶⁾ Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — ⁷⁾ Observatorio Regional do Rio Grande do Sul.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Potsdam (Astrophys. Obs.)	97 ^m	+52° 22' 56.0	— 0° 52' 15.86	— 8.58	+52° 11' 42.7	9.999091
Potsdam (Geod.Inst.) Turm	99	+52 22 54.8	— 0 52 16.11	— 8.58	+52 11 41.5	9.999091
Poughkeepsie ¹⁾ . . .	61	+41 41 18	+ 4 55 33.6	+48.56	+41 29 47	9.999360
Prag (Univ.-Stw.) Turm .	197	+50 5 16.0	— 0 57 40.29	— 9.47	+49 53 50.9	9.999155
Prag (Safarik)	—	+50 4 24	— 0 57 48	— 9.49	+49 52 59	9.999142
Princeton N. J. (N. Stw.) ²⁾	75	+40 20 55.8	+ 4 58 39.44	+49.06	+40 9 29.7	9.999395
Providence ³⁾	171	+41 49 46.4	+ 4 45 37.64	+46.92	+41 38 15.2	9.999363
Pulkowa Zentr. d. Stw.	75	+59 46 18.5	— 2 1 18.57	—19.93	+59 36 12.3	9.998914
Quebec Canada . . .	90	+46 47 59.2	+ 4 44 52.71	+46.80	+46 36 24.8	9.999231
Quito	2846	— 0 14 0	+ 5 13 58.20	+51.58	— 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	— 1 36 28.11	—15.84	+56 46 30	9.998974
Rio de Janeiro . . .	63	—22 54 23.7	+ 2 52 41.52	+28.37	—22 46 6.0	9.999784
Rio de Janeiro (N. Stw.)	33	—22 53 41	+ 2 52 53.5	+28.40	—22 45 24	9.999782
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	— 0 49 55.36	— 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr. .	65	+41 53 33.2	— 0 49 56.34	— 8.20	+41 42 1.9	9.999355
Rom (Vatican) Mer.-Kr. .	100	+41 54 12.4	— 0 49 48.26	— 8.18	+41 42 41.1	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby	119	+52 22 30	+ 0 5 2.0	+ 0.83	+52 11 16.7	9.999093
St. Louis Missouri . .	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433
San Fernando . . .	30	+36 27 42.0	+ 0 24 49.30	+ 4.08	+36 16 37.7	9.999488
San Francisco ⁴⁾ . .	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N. St.)	580	—33 33 44.2	+ 4 42 46.0	+46.44	—33 23 4.1	9.999595
Santiago de Chile (A. St.)	619	—33 26 25.4	+ 4 42 36.9	+46.42	—33 15 46.4	9.999600
Sétif	1120	+36 11 10	— 0 21 38.6	— 3.55	+36 0 7.7	9.999569
Simeis	360	+44 24 11.1	— 2 15 58.1	—22.34	+44 12 35.6	9.999312
Sonneberg (Hoffmeister)	405	+50 21 29.5	— 0 44 42.87	— 7.34	+50 10 5.5	9.999163
Sonneberg (Erbisbühl)	640	+50 22 41.4	— 0 44 46.19	— 7.36	+50 11 17.5	9.999178
South Hadley	76	+42 15 18.2	+ 4 50 19	+47.69	+42 3 45.9	9.999346
Stará Dala ⁵⁾	113	+47 52 27.3	— 1 12 45.49	—11.95	+47 40 54.9	9.999206
Stockholm Mer.-Kreis	44	+59 20 32.7	— 1 12 13.97	—11.86	+59 10 21.4	9.998922
Stonyhurst	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Strasbourg (N. St.) M.-Kr. ⁶⁾	144	+48 35 0.4	— 0 31 4.53	— 5.10	+48 23 29.9	9.999190
Sydney	44	—33 51 41.1	—10 4 49.54	—99.36	—33 40 58.2	9.999551
Tacubaya ⁷⁾	2311	+19 24 17.9	+ 6 36 46.71	+65.18	+19 17 3.0	9.999997
Tartu (Dorpat, Jurjew) Mer.-Kr.	67	+58 22 47.2	— 1 46 53.19	—17.56	+58 12 25.1	9.998946
Taschkent	479	+41 19 36.7	— 4 37 10.57	—45.53	+41 8 7.1	9.999398

1) Vassar College. — 2) Alte Sternwarte 2".0 nördlich, 1".94 östlich; 65m. — 3) Seagrave.
Ladd Observatory 35" nördlich, 1".57 östlich. — 4) Davidson Observatory. — 5) Früher O-Gyalla. —
6) Seit Anfang 1881. — 7) Seit März 1883, früher in Chapultepec.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Teramo (Cerulli)	398 ^m	+42° 39' 27"	— 0° 54' 55.8"	— 9.02	+42° 27' 54"	9.999358
Tokio	59	+35 40 21.4	— 9 18 10.09	— 91.69	+35 29 23.0	9.999509
Toronto	116	+43 40 1.3	+ 5 17 34.67	+ 52.17	+43 28 26.5	9.999313
Tortosa (Ebro-Stw.) M.-Kr.	54	+40 49 14	— 0 1 58	— 0.32	+40 37 46	9.999382
Toulouse Mer.-Kr.	195	+43 36 44.0	— 0 5 51.2	— 0.96	+43 25 9.3	9.999320
Triest	23	+45 38 45.4	— 0 55 2.90	— 9.04	+45 27 9.9	9.999256
Tsingtau (Met.-astr. Stat.) .	—	+36 4 11.3	— 8 1 16.21	— 79.06	+35 53 9.8	9.999496
Tucson Arizona (Steward Obs.)	757	+32 13 59.4	+ 7 23 47.68	+ 72.90	+32 3 32.6	9.999638
Turin Mer.-Kr.	276	+45 4 7.9	— 0 30 47.15	— 5.06	+44 52 32.2	9.999288
Turin (Pino Torinese) . . .	618	+45 2 16.3	— 0 31 5.95	— 5.11	+44 50 40.6	9.999312
Upsala (N.Stw.) Pass.-Instr.	21	+59 51 29.4	— 1 10 30.13	— 11.58	+59 41 24.2	9.998909
Urbana Ill.	236	+40 6 20.2	+ 5 52 53.90	+ 57.97	+39 54 55.1	9.999412
Utrecht	12	+52 5 9.5	— 0 20 31.6	— 3.37	+51 53 54.4	9.999093
Valkenburg (Ignatius Coll.)	100	+50 52 29.3	— 0 23 19.91	— 3.83	+50 41 7.8	9.999129
Venedig	15	+45 26 10.5	— 0 49 22.12	— 8.11	+45 14 34.9	9.999261
Victoria B. C. (Dominion Obs.)	229	+48 31 15.7	+ 8 13 40.17	+ 81.18	+48 19 45.0	9.999197
Warschau ¹⁾ Zentr. d. Stw.	121	+52 13 4.6	— 1 24 7.25	— 13.82	+52 1 50.3	9.999096
Warschau ²⁾	—	+52 13 10	— 1 24 4.8	— 13.81	+52 1 56	9.999088
Washington (Alte Stw.) . . .	31	+38 53 38.9	+ 5 8 12.13	+ 50.63	+38 42 19.4	9.999428
Washington (Neue Stw.) . . .	82	+38 55 14.0	+ 5 8 15.78	+ 50.64	+38 43 54.4	9.999431
Washington (Kath. Univ.) . . .	—	+38 56 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	9.999425
Wellington Transit Instr. ³⁾	127	—41 17 3.8	—11 39 4.27	—114.84	—41 5 34.3	9.999375
West Point N.Y. (N.Stw.) ⁴⁾	170	+41 23 22.1	+ 4.55 50.6	+ 48.60	+41 11 52.3	9.999375
Wien (Alte Sternw.)	167	+48 12 35.5	— 1 5 31.61	— 10.76	+48 1 3.9	9.999201
Wien (Josephstadt) ⁵⁾	214	+48 12 53.8	— 1 5 25.17	— 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr. . .	240	+48 13 55.3	— 1 5 21.35	— 10.73	+48 2 23.8	9.999205
Wien (Ottakring) ⁶⁾	285	+48 12 46.7	— 1 5 10.97	— 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.) . . .	211	+48 12 40.5	— 1 5 26.24	— 10.75	+48 1 8.9	9.999203
Wien (Techn. Hochschule) . . .	200	+48 11 58.3	— 1 5 29.76	— 10.76	+48 0 26.7	9.999204
Wilhelmshaven Mer.-Kr. . . .	9	+53 31 52.1	— 0 32 35.15	— 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc. ⁷⁾	334	+42 34 12.6	+ 5 54 13.24	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass.	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Wilna Pass.-Instr.	122	+54 40 59.1	— 1 41 8.76	— 16.61	+54 30 2.1	9.999036
Windsor N. S. W. ⁸⁾	16	—33 36 30.8	—10 3 20.77	— 99.11	—33 25 50.2	9.999556
Wolfersdorf	279	+50 47 20.0	— 0 46 50.94	— 7.70	+50 35 58.0	9.999143
Zô-sè China	100	+31 5 48.0	— 8 4 44.82	— 79.63	+30 55 33.6	9.999619
Zürich Meridian-Kreis	468	+47 22 38.3	— 0 34 12.3	— 5.62	+47 11 4.8	9.999242

1) Universitäts-Sternwarte. — 2) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — 3) Dominion Observatory. — 4) Seit 1883. Alte Sternwarte 9" nördlich, 1".2 östlich. — 5) von Oppolzers Sternwarte. — 6) v. Kuffner. — 7) Yerkes Observatory. — 8) J. Tebbutt. Neue Sternwarte, 0".4 südlich von der alten.

Normalzeiten der wichtigeren Länder

a) An den Meridian von Greenwich angeschlossen

Normalzeit = Mittl. Ortszeit des Meridians	Bezeichnung	Staaten
östl. Gr. ^h ^m		
11 30	—	Neu Seeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien
9 30	—	Süd-Australien
9 0	—	Japan, Korea
8 0	Ostchinesische Küsten-Z.	Ostküste von China, West-Australien
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina
5 30	—	Indien, Ceylon
3 0	—	Europ. Rußland östl. von etwa 40° östl. Länge
2 30	—	Deutsch Ostafrika
2 0	Osteuropäische Z.	Finnland, Estland, Lettland, Europ. Rußland westl. von etwa 40° östl. Länge, Bulgarien, Rumänien, Griechenland, Türkei, Palästina, Ägypten, Süd-Afrika
1 0	Mitteuropäische Z. (M. E. Z.)	Dänemark, Deutschland, Italien, Norwegen, Österreich, Ungarn, Schweden, Schweiz, Jugoslawien, Polen, Deutsch Südwest-Afrika
^h ^m 0 0	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien und Irland, Luxemburg, Portugal, Spanien, Gibraltar, Algerien
westl. Gr. ^h ^m		
3 0	—	Ost-Brasilien
4 0	Atlantic St. Time	Mittel-Brasilien, Argentinien, Uruguay, Canada (Küste)
4 30	—	Venezuela
5 0	Eastern St. Time	Canada (Quebec, Ontario bis 82° 30' westl.), Vereinigte Staaten (Ost-Zone), Chile, Panama, Peru, West-Brasilien
6 0	Central St. Time	Zentral-Zone von Canada und Vereinigte Staaten, Ostmexico
7 0	Mountain St. Time	Gebirgszone von Canada und Vereinigte Staaten, Westmexico
8 0	Pacific St. Time	Vereinigte Staaten (Pazifische Küste), Britisch Kolumbien
10 30	—	Sandwich Inseln

b) Nicht an den Meridian von Greenwich angeschlossen

Staaten	Meridian	Längendifferenz gegen Greenwich
Columbien	Bogota	4 56 ^m 52.4 W.
Ecuador	Quito	5 14 6.7 W.
Niederlande	Amsterdam	0 19 30.5 O.

Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Wandelsterne* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind in Welt-Zeit ausgedrückt, wenn nicht ausdrücklich eine andere Zeit angegeben wird. **Welt-Zeit ist identisch mit Bürgerlicher Zeit Greenwich.** Der bürgerliche Tag beginnt um Mitternacht, die Welt-Zeit-Stunden sind von 0^h bis 24^h durchgezählt. Die Beziehung zu der bis zum Jahrgang 1924 (einschließlich) im Jahrbuch verwendeten Mittleren Zeit Greenwich besteht darin, daß der astronomische mittlere Tag erst am Mittag des bürgerlichen Tages, also 12^h nach dessen Anfang beginnt. Somit ist 1925 Jan. 1, 0^h Welt-Zeit gleich 1924 Dez. 31, 12^h Mittlere Zeit Greenwich.

Die Örter der *Fixsterne* sind gegeben als »Mittlere Sternörter«, bezogen auf das mittlere Äquinoktium des Jahresanfangs, und in Ephemeridenform als »Scheinbare Sternörter«, bezogen auf das instantane wahre Äquinoktium.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Sonnenephemeride (S. 2—38).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den linken Seiten für 0^h Welt-Zeit an jedem Tage:

- 1) Die Zeitgleichung = Mittlere Zeit *minus* Wahre Zeit.
- 2) Die geozentrischen, äquatorialen Koordinaten α , δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzenreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.
- 3) Die halbe Durchgangsdauer (in Sternzeit) der Sonnenscheibe durch den Meridian.
- 4) Den geozentrischen Halbmesser der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

- 1) Die Julianische Zeit, d. i. die Anzahl der seit Beginn der Julianischen Periode verflossenen mittleren Sonnentage.

2) Die Sternzeit für 0^h Welt-Zeit. In ihr sind, wie im Vorwort erwähnt, nur die langperiodischen Glieder der Nutation enthalten.

Um für einen anderen Erdort der westlichen Längendifferenz $\Delta\lambda$ (in Stunden) gegen Greenwich die Sternzeit in seiner mittleren Mitternacht zu erhalten, ist zu diesen Angaben zuzulegen: $9^s.8565 \Delta\lambda$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die Nutation in Rektaszension getrennt nach langperiodischen und kurzperiodischen Gliedern.

4) Die geozentrischen ekliptikalen Koordinaten λ , β der Sonne, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie $\log R$, den Logarithmus der Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

5) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in $+50^\circ$ Breite; sie sind mit der Horizontalrefraktion $34'$ berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen $+30^\circ$ und $+60^\circ$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 334*, 335* zu benutzen.

Auf S. 20—37 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen geozentrischen äquatorialen Sonnenkoordinaten für 0^h und 12^h Welt-Zeit mit ihren ersten Differenzen. Am Fuß der Seite 37 finden sich die Zeiten für die Anfänge der Jahreszeiten und für die Erdnähe und Erdferne der Sonne.

Die Seite 38 enthält die Aberration, Parallaxe, mittlere Länge L_\odot und mittlere Anomalie M_\odot der Sonne im Intervall von je 10 Tagen.

Mondephemeride (S. 39—57).

Seite 39 enthält die Zeitangaben für die Phasen und die Erdnähe und Erdferne des Mondes.

Die Mondephemeride (S. 40—57) gibt auf den linken Seiten für 0^h Welt-Zeit:

1) Die scheinbare Rektaszension und Deklination des Mondmittelpunktes mit den ersten Differenzen.

2) Die Äquatorial-Horizontalparallaxe p_α des Mondes.

3) Den geozentrischen Mondhalbmesser r_α , d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.

4) Die Länge und Breite des Mondes, abgekürzt auf $0^\circ.001$.

Die rechten Seiten enthalten:

1) Für den oberen Durchgang des Mondes durch den Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die bürgerliche Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1^h westlicher Längendifferenz.

2) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in $+50^\circ$ Breite nebst Änderung

für 1^h westlicher Längendifferenz; sie sind mit der Horizontalrefraktion 34' berechnet und gelten für den oberen Rand des Mondes. Um daraus für einen beliebigen anderen Ort zwischen +30° und +60° geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 336*, 337* zu benutzen.

Ephemeriden der Großen Planeten

(S. 58—112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus, Mars, Jupiter, Saturn von Tag zu Tag, für Uranus und Neptun von 4 zu 4 Tagen für 0^h Welt-Zeit mit ihren ersten Differenzen gegeben, und zwar in scheinbaren, auf das momentane wahre Äquinoktium bezogenen Koordinaten. Die letzte Spalte gibt die bürgerliche Zeit (Greenwich) der oberen Kulmination in Greenwich.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntniss der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für Merkur Halbmesser	. . . . .	3.34		
» Venus	»	8.78		
» Mars	»	4.68		
» Jupiter	» (Äquatorial)	99.8,	(Polar)	92.6
» Saturn	» (Äquatorial)	81.4,	(Polar)	73.4
» Uranus	»	34.7		
» Neptun	»	45		

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge, deren Reduktion auf die Bahn und die Breite bezogen auf das mittlere Äquinoktium 1925.0.

Ω und i stellen die Bahnlage für die Epoche 1925.0 und das Normaläquinoktium 1925.0 dar.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigelegten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 2*—25*).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Rechen-Instituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch numerische Integration berechnet.

Ein * vor dem Namen weist auf eine Anmerkung am Fuß der Seite hin.

Unter Gr. stehen die visuellen Größen, welche aus der »Revised Harvard Photometry« in »Harvard Annals, vol. 50« entnommen sind, sofern nichts Anderes bemerkt ist. Wo für einen Stern zwei Größen gegeben sind, beziehen sich diese auf die Komponenten eines Doppelsterns. Die in den Anmerkungen gegebenen Größen für Doppelsternkomponenten und für die Extrema der Veränderlichen sind dem »Henry Draper Catalogue« entnommen.

Die Spektren sind aus dem Draper Katalog übernommen worden. Zusammengesetzte Spektren sind durch + gekennzeichnet. In anderen Fällen beziehen sich, wo 2 Spektren gegeben sind, diese auf die Komponenten eines Doppelsterns.

Scheinbare Örter von 579 Fixsternen (S. 26*—235*).

Die scheinbaren Rektaszensionen und Deklinationen der Fixsterne sind für den Moment der oberen Kulmination im Meridian von Greenwich gegeben.

Die Ephemeriden der 555 Sterne mit Deklinationen kleiner als 80° , deren scheinbare Örter von 10 zu 10 Sterntagen gegeben sind, enthalten die kurzperiodischen Mondglieder der Nutation nicht. Das Datum des Tages, an welchem zwei Kulminationen stattfinden, ist in kleinem Druck vor der Rektaszensionsspalte angeführt.

Die jährliche Parallaxe ist bei folgenden Sternen berücksichtigt, bei denen sie $0''.20$ übersteigt und hinreichend verbürgt erscheint, nämlich:

Nr. 59 τ Ceti	mit 0.31	Nr. 538 α Centauri	mit 0.75
Nr. 127 ε Eridani	» 0.32	Nr. 745 α Aquilae	» 0.23
Nr. 257 α Can. maj.	» 0.38	Nr. 793 61 Cygni	» 0.30
Nr. 291 α Can. min.	» 0.33		

Von den im B. J. nicht mit Ephemeriden versehenen Sternen des N. F. K. besitzt noch Nr. 825, ε Indi, eine Parallaxe von $0''.25$.

Die Ephemeriden der auf S. 2*—24* eingeklammerten Sterne findet man im Almanaque Nautico.

Es folgen die scheinbaren Örter von 20 Polsternen für jede obere Kulmination. Sie enthalten die kurzperiodischen Mondglieder nicht, jedoch sind deren Werte in besonderen Spalten gegeben.

Am Fuße der Ephemeriden ist der mittlere Ort eines jeden Sternes für den Anfang des Jahres und die Werte von $\sec \delta$ und $\tan \delta$ angegeben, welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden. Ferner sind hier die Größen a , b , a' , b' enthalten, mit deren Hilfe die Nutationsglieder kurzer Periode leicht berechnet werden können. Man erhält $A'a + B'b$ in Zeitsekunden, $A'a' + B'b'$ in Bogensekunden.

Auf den Seiten 226*—235* sind die scheinbaren, rechtwinkligen Koordinaten von vier polnahen Sternen gegeben. Sie beziehen sich auf ein Koordinatensystem, dessen positive x -Achse nach dem Frühlingspunkt und dessen positive y -Achse nach dem Punkt $\alpha = 6^h$, $\delta = 0^\circ$ gerichtet ist. Der Zusammenhang zwischen x, y und α, δ ist gegeben durch die Beziehungen: $x = \cos \delta \cos \alpha$, $y = \cos \delta \sin \alpha$. Die Angaben gelten für 12^h Sternzeit Greenwich und enthalten die kurzperiodischen Mondglieder der Nutation nicht, deren Werte jedoch in der letzten Spalte einer jeden Seite unter der Überschrift »Kurzperiod. Mondgl.« gegeben sind.

Als Quellen für die Koordinaten und Eigenbewegungen dieser vier Sterne sind benutzt worden:

für BD + 89° 1: L. Courvoisier: Beobachtungen des Sterns BD 89° 1 am großen Meridiankreis der Berliner Sternwarte. Astron. Nachr. Bd. **200**, 243,

für BD + 89° 3: L. Courvoisier: Ephemeriden der Polsterne BD 89° 3 und BD 89° 37 für 1923. Astron. Nachr. Bd. **217**, 319,

für BD + 89° 37: L. Courvoisier: Neue Position und Eigenbewegung des Polsterns BD + 89° 37. Astron. Nachr. Bd. **230**, 71,

für CPD - 89° 38: Cape Annals Bd. **XI**, II, 244 für den Ort und eine briefliche Mitteilung für die Eigenbewegung.

Mit den an diesen Stellen gegebenen Werten findet man folgende mittleren Örter für 1931.0:

Name	Gr.	x	Jährliche Veränd. 1931.5	Jährliche Eigenbw.	y	Jährliche Veränd. 1931.5	Jährliche Eigenbw.
BD + 89° 1	^M 10.56	- 99".12	-20.086	-0.024	+ 79".29	-0.032	-0.008
BD + 89° 3	9.06	+101.98	-20.240	-0.003	+863.59	+0.015	-0.006
BD + 89° 37	10.06	-881.77	-19.979	-0.011	-343.41	-0.184	+0.015
CPD - 89° 38	9.5	-207.47	+20.140	+0.027	-307.47	-0.013	+0.031

Reduktionsgrößen (S. 236*—276*).

Auf die scheinbaren Örter der Sterne folgt S. 236* eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer ersten Form: A, B, C, D, E ; A', B' gegeben für 12^h Sternzeit des Meridians von Greenwich:

1) Auf S. 237* im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach

der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

- 2) Auf S. 256*—264* für jeden Sterntag. Hier sind die numerischen Werte von A , B , C und D mit ihren Differenzen gegeben und die kurzperiodischen Mondglieder A' und B' mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Welt-Zeit vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der zweiten Form: f , $\log g$, G , $\log h$, H , $\log i$ und i , sowie f' , g' und G' sind S. 238*—255* von Tag zu Tag für 0^h Welt-Zeit gegeben.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt. Ferner ist die Sternzeit Greenwich für 0^h Welt-Zeit gegeben.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten f' , g' , G' noch folgende Größen:

- a) ψ = Allgemeine Präzession seit Jahresanfang.
- b) $\Delta\psi$ = Langperiodische Glieder der Nutation in Länge.
- c) $\Delta\psi'$ = Kurzperiodische Glieder der Nutation in Länge.
- d) ε = Wahre Schiefe der Ekliptik.
- e) $\Delta\varepsilon$ = Langperiodische Glieder der Nutation in Schiefe.
- f) $\Delta\varepsilon'$ = Kurzperiodische Glieder der Nutation in Schiefe.
- g) Die Koeffizienten j und k , welche in den Formeln auf S. 267* vorkommen.

Die mittlere Schiefe der Epoche erhält man durch Subtraktion der Gesamtnutation ($\Delta\varepsilon + \Delta\varepsilon'$) von der wahren Schiefe.

Auf S. 265* findet sich eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1931.0.

S. 266* enthält eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium 1931.0.

Auf S. 267* sind die Formeln zusammengestellt, mit welchen bei Anschlußbeobachtungen die gemessene scheinbare Rektaszensions- und Deklinationsdifferenz in die mittlere, für den Jahresanfang geltende, übergeführt wird. Die in diesen Formeln auftretenden Koeffizienten j und k sind auf den Seiten 239*—255* enthalten und haben die Bedeutung

$$j = 15g \operatorname{arc} 1'$$

$$k = 15h \operatorname{arc} 1',$$

wobei g und h die auf den Seiten 238*—254* gegebenen Reduktionsgrößen sind.

S. 268* enthält eine Zusammenstellung der von der Deklination abhängenden Faktoren der Formeln auf S. 267*.

S. 269* enthält eine Tafel der numerischen Werte der Funktionen Sinus und Cosinus für in Zeit ausgedrückte Winkel. Ihre Benutzung erleichtert die Berechnung der Formeln auf S. 267*.

Die Seite 270* enthält eine Tafel zur Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1931.0 auf das Normaläquinoktium 1925.0. Man findet die auf das Normaläquinoktium 1925.0 bezogene Koordinatendifferenz, indem man an der auf das mittlere Äquinoktium 1931.0 bezogenen Rektaszensionsdifferenz die differentielle Präzession Δp_{α}^s und an der Deklinationsdifferenz die differentielle Präzession Δp_{δ}^s anbringt:

$$\Delta p_{\alpha}^s = a_1 \operatorname{tg} \delta \cdot \Delta \alpha^m + a_2 \frac{1}{15} \sec^2 \delta \cdot \Delta \delta',$$

$$\Delta p_{\delta}^s = d_1 \cdot \Delta \alpha^m.$$

Die Koeffizienten a_1 , a_2 und d_1 sind in der Tafel auf S. 270* enthalten und haben die Bedeutung

$$a_1 = (n) \operatorname{arc} 1' \cos \alpha$$

$$a_2 = (n) \operatorname{arc} 1' \sin \alpha$$

$$d_1 = -15 (n) \operatorname{arc} 1' \sin \alpha.$$

$\Delta \alpha^m$ und $\Delta \delta'$ sind die auf das mittlere Äquinoktium 1931.0 bezogenen Rektaszensions- und Deklinationsdifferenzen in Zeit- bez. Bogenminuten. Nach den angegebenen Formeln findet man die differentielle Präzession für Rektaszension in Zeitsekunden, diejenige für Deklination in Bogensekunden.

Die auf den Seiten 271*–272* gegebenen Größen f , $\log g$ und G dienen zur Übertragung der Örter von dem *mittleren* Normaläquinoktium 1925.0 auf das jedesmalige *wahre* Äquinoktium. Die Berücksichtigung des Einflusses der Variatio saecularis bei dieser Übertragung ist durch die Tafel auf S. 273* gegeben. Diese enthält in der ersten Reihe einer jeden Vertikalspalte die Werte von $0.180 \times \text{Var. saec.}$ für die mit den Argumenten α und δ gegebenen Örter. Die an zweiter Stelle stehenden Zahlen einer jeden Vertikalspalte sind die einjährigen Änderungen von $0.180 \times \text{Var. saec.}$ und sind, wenn erforderlich, bei der Entnahme des Einflusses der Variatio saecularis für den in Frage kommenden Bruchteil des Jahres zu berücksichtigen.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium 1931.0 auf das Normaläquinoktium 1925.0 befindet sich auf den Seiten 274*–276*.

Die hier tabulierten Größen sind gerechnet nach den Formeln:

$$A = (m) + \frac{v^2}{4} \sin 2a$$

$$A_1 = v \sin a$$

$$A_2 = \frac{v^2}{2} \sin 2a$$

$$D = v \cos a$$

$$D_1 = -\frac{v^2}{2} \sin^2 a,$$

wobei $\nu = \sin(n)$, $a = \alpha_{1931.0} + 90^\circ - (N)$. Betreffs der Größen (m) , (n) und $90^\circ - (N)$ vgl. S. 266*.

Sonnen- und Mondfinsternisse (S. 278*—284*).

Die bei den Sonnenfinsternissen gegebenen Besselschen Elemente dienen in der folgenden Weise zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte:

Mit einer Ausgangszeit T (siehe weiter unten) entnimmt man der Elemententabelle die Werte:

$x, y, \log \sin d, \log \cos d, \mu, l$ ($l^{(a)}$ für äußere, $l^{(i)}$ für innere Berührung), $\log \tan f$ ($f^{(a)}$ für äußere, $f^{(i)}$ für innere Berührung), x' und y' .

Mit ihnen rechnet man das folgende Formelsystem durch:

$$(1) \quad \begin{cases} \xi = c \cos \varphi \sin (\mu - \lambda) \\ \eta = s \sin \varphi \cos d - c \cos \varphi \sin d \cos (\mu - \lambda) \\ \zeta = s \sin \varphi \sin d + c \cos \varphi \cos d \cos (\mu - \lambda) \\ \xi' = [7.6398 - 10] c \cos \varphi \cos (\mu - \lambda) \\ \eta' = [7.6398 - 10] \xi \sin d, \end{cases}$$

worin φ die geographische Breite, λ die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, s und c aus der Tafel auf S. 348* zu entnehmen sind.

Alsdann:

$$(2) \quad \begin{cases} m \sin M = x - \xi \\ m \cos M = y - \eta \end{cases} \quad m > 0$$

$$\begin{cases} n \sin N = x' - \xi' \\ n \cos N = y' - \eta' \end{cases} \quad n > 0$$

Nun berechnet man aus:

$$(3) \quad L = l - \zeta \tan f$$

$L^{(a)}$ mit $l^{(a)}$ und $f^{(a)}$, $L^{(i)}$ mit $l^{(i)}$ und $f^{(i)}$; dann aus:

$$(4) \quad \sin \psi = \frac{m \sin (M - N)^{1)} }{L}$$

mit $L^{(a)}$ und $L^{(i)}$ je zwei Werte $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$, von denen der eine zum Eintritt der Erde in den Halb- oder Kernschatten-Kegel, der andere zu ihrem Austritt aus ihm gehört. Diesen vier Werten $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$ entsprechen vier Werte $\tau^{(a_1)}$, $\tau^{(a_2)}$ und $\tau^{(i_1)}$, $\tau^{(i_2)}$ (in Zeitminuten) nach

$$(5) \quad \tau = - \frac{m \cos (M - N)}{n} + \frac{L \cos \psi}{n},$$

¹⁾ Wird der Winkel ψ bei der ersten Näherungsrechnung imaginär, so rechne man τ unter der Annahme $\psi = 90^\circ$ aus $\tau = - \frac{m \cos (M - N)}{n}$; bleibt ψ auch in der weiteren Rechnung imaginär, so deutet dies an, daß an dem betreffenden Orte keine Sonnenfinsternis stattfindet.

um welche die Ausgangszeit T zu verbessern ist, um die Zeit der gesuchten Phase zu erhalten. Ist T die gesuchte Phasenzeit, so wird $\tau = 0$ werden. Man muß daher das Formelsystem (1) bis (5) mit steigenden Näherungen solange durchrechnen, bis dieser Fall eintritt, d. h. bis das Formelsystem sich schließt. Zu diesem Zweck beginnt man mit einem Näherungswert T_1 , für den man, wenn kein besserer bekannt sein sollte, eine beliebige Zeit nahe der Mitte der Finsternis nehmen mag, und rechnet die erste genäherte Korrektur τ_1 ; dann wiederholt man die Rechnung mit $T_2 = T_1 + \tau_1$, dann mit $T_3 = T_2 + \tau_2 = T_1 + \tau_1 + \tau_2$ u. s. f. bis $\tau_n = 0$ sich ergibt. T_n ist dann die gesuchte Welt-Zeit des Kontaktes, die durch Hinzufügung der Längendifferenz in mittlere Ortszeit zu verwandeln ist. Die Rechnung ist für jede Berührung gesondert durchzuführen.

Die Positionswinkel der einzelnen Phasen, in üblicher Weise vom Punkt größter Deklination nach Osten gezählt, folgen aus den Werten der letzten Näherung (Größen mit dem Index n) nach

$$P = N + \psi.$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel γ abzuziehen, der aus

$$\left. \begin{aligned} p \sin \gamma &= \xi \\ p \cos \gamma &= \eta \end{aligned} \right\} p > 0$$

folgt, also

$$Q = P - \gamma.$$

Um die Zeit der größten Phase, T_{\max} , zu erhalten, hat man die beiden Formelsysteme (1) und (2) mit einem Näherungswerte \bar{T}_1 durchzurechnen, daraus $\bar{T}_2 = \bar{T}_1 - \frac{m \cos(M - N)}{n}$ zu entnehmen und die Rechnung solange fortzusetzen, bis die Korrektur der Ausgangszeit 0 wird. Als Näherungswert \bar{T}_1 wählt man zweckmäßig das Mittel der beiden Werte von T_2 für die Berührungszeiten.

Die Größe der Verfinsternung i , in Teilen des Sonnendurchmessers ausgedrückt, ergibt sich dann aus:

$$i = \frac{L^{(a)} - m}{2 L^{(a)} - 0.5450},$$

worin $L^{(a)}$ und m die zur Zeit T_{\max} gehörigen Werte bedeuten.

Sternbedeckungen (S. 285*—291*)

Die Seiten 285*—288* enthalten die Elemente von Stern- und Planetenbedeckungen durch den Mond, welche in dem Gebiet zwischen den Meridianen 0^h und 2^h östliche Länge von Greenwich und den Breitenkreisen $+45^\circ$ und $+55^\circ$ sichtbar sind. Die Auswahl ist auf Sterne bis zur Größe $6^m.0$ beschränkt.

Mit den in der Zusammenstellung der Elemente gegebenen Werten geschieht die Berechnung der Berührungszeiten eines Sternes mit dem Mondrand für einen Ort mit den geographischen Koordinaten φ und λ (λ positiv, wenn westlich von Greenwich) auf folgende Weise:

Aus der auf den Seiten 285*—288* enthaltenen Welt-Zeit T der geozentrischen Konjunktion von Mond und Stern findet man die Welt-Zeit $T+t$ der topozentrischen Konjunktion durch Berechnung der Größen:

$$h_0 = H - \lambda$$

$$\xi_0 = c \cos \varphi \sin h_0 \quad (c \text{ und später } s \text{ aus der Tafel auf S. 348}^*)$$

$$\xi' = [9.4192 - 10] c \cos \varphi \cos \frac{4}{3} h_0$$

$$t = \frac{\xi_0}{x' - \xi'}$$

t ergibt sich in Stunden mittlerer Zeit. Das Vorzeichen entspricht dem von h_0 .

Für die Zeit $T+t$ berechne man die folgenden Größen, in denen $t_0 = 1.0027 t$ ist.

$$\xi = c \cos \varphi \sin (h_0 + t_0)$$

$$\eta = s \sin \varphi \cos \delta - c \cos \varphi \sin \delta \cos (h_0 + t_0) = \eta_1 - \eta_2$$

$$\xi' = [9.4192 - 10] c \cos \varphi \cos (h_0 + t_0)$$

$$\eta' = [9.4192 - 10] \xi \sin \delta$$

$$x = x' t$$

$$y = Y + y' t$$

Aus den Beziehungen:

$$\left. \begin{aligned} m \sin M &= x - \xi \\ m \cos M &= y - \eta \end{aligned} \right\} m > 0$$

$$\left. \begin{aligned} n \sin N &= x' - \xi' \\ n \cos N &= y' - \eta' \end{aligned} \right\} n > 0$$

$$\sin \psi = [0.5646] m \sin (M - N),$$

ψ zwischen $+90^\circ$ und -90° , berechne man

$$\tau = - \frac{[1.7782] m}{n} \cos (M - N) \mp \frac{[1.2135]}{n} \cos \psi$$

$$d\tau = \frac{[6.7591 - 10] \tau^2}{n \cos \psi} [\eta_2 \cos (N \mp \psi) - \xi \sin (N \mp \psi)],$$

wobei die oberen Vorzeichen für den Eintritt, die unteren für den Austritt gelten. Die eingeklammerten Zahlen bedeuten Logarithmen. τ und $d\tau$ ergeben sich in Zeitminuten. Werden die für den Eintritt geltenden Werte mit τ' und $d\tau'$ bezeichnet, die für den Austritt geltenden mit τ'' und $d\tau''$, so ist die Welt-Zeit des

$$\text{Eintritts} = T + t + \tau' + d\tau'$$

$$\text{Austritts} = T + t + \tau'' + d\tau''.$$

Als Kontrolle berechne man die Werte von x, y, ξ, η für die so gefundenen Berührungszeiten. Sind diese richtig, so muß die Beziehung erfüllt sein:

$$\sqrt{(x - \xi)^2 + (y - \eta)^2} = 0.2725$$

Ist $m \sin(M-N) > 0.2725$, so tritt für den betreffenden Beobachtungs-ort keine Bedeckung des Sternes ein.

Die Positionswinkel des Sternes inbezug auf den Mondmittelpunkt für die Zeiten des Ein- und Austritts folgen aus

$$P_E = N - \psi - dP \text{ für den Eintritt,}$$

$$P_A = N + \psi + dP \pm 180^\circ \text{ für den Austritt, .}$$

wobei die Winkel $N - \psi$ und $N + \psi$ aus der Rechnung für $d\tau$ entnommen werden können, und dP in Graden ausgedrückt aus

$$dP = \frac{[7.3038 - 10] \tau^2}{\cos \psi} (\eta_2 \sin N + \xi \cos N) .$$

folgt.

Auf den Seiten 289*—291* sind Angaben über die Sternbedeckungen enthalten, die in Berlin-Babelsberg, Königsberg und München sichtbar sind. Außer der genäherten Welt-Zeit des Ein- und Austrittes ist unter P der Positionswinkel des Sterns für die Zeiten der Berührung mit dem Mondrande angeführt.

Die Größen a und b dienen zur Berechnung der genäherten Ein- und Austrittszeiten für andere als die drei angeführten Orte. Sind λ_0 und φ_0 die geographische Länge und Breite von Berlin-Babelsberg, Königsberg oder München, λ und φ die Koordinaten irgend eines anderen Ortes innerhalb Deutschlands, so wird für diesen letzteren die Zeit der Berührung des Sterns mit dem Mondrande, wenn man z. B. von den für Berlin-Babelsberg geltenden Angaben ausgeht, gleich der Zeit der Berührung für Berlin-Babelsberg $+ a(\lambda - \lambda_0) + b(\varphi - \varphi_0)$, wobei $\lambda - \lambda_0$ und $\varphi - \varphi_0$ in Einheiten des Grades unter Mitnahme der Zehntelgrade zu verwenden sind, und die Korrektur $a(\lambda - \lambda_0) + b(\varphi - \varphi_0)$ sich in Zeitminuten ergibt.

Die Vorausberechnungen der Sternbedeckungen für Berlin-Babelsberg, Königsberg und München sind von den Herren T. Whitwell und W. A. Forster ausgeführt und von dem Nautical Almanac Office, London, zur Verfügung gestellt worden.

Mondbewegung und Lage des Mondäquators gegen den Erdäquator (S. 292*).

Auf S. 292* finden sich:

Ω , Aufsteigender Knoten der Mondbahn auf der Ekliptik

L_G , Mittlere Länge des Mondes

M_G , Mittlere Anomalie des Mondes

i , Neigung des Mondäquators gegen den Erdäquator

Ω' , Aufsteigender Knoten des Mondäquators auf dem Erdäquator

A , Stück des Mondäquators zwischen Ekliptik und Erdäquator

Ω , der aufsteigende Knoten des Mondäquators auf der Ekliptik, ist gleich dem absteigenden Knoten der Mondbahn, also

$$\Omega = \Omega' \pm 180^\circ .$$

Vom Jahrgang 1926 ab sind die Brownschen Mondtafeln verwendet.

Die Größen i , Δ und Ω' berechnen sich aus:

$$\sin \frac{1}{2} (\Delta + \Omega') \cos \frac{1}{2} i = \cos \frac{1}{2} (\varepsilon - J) \sin \frac{1}{2} \vartheta$$

$$\cos \frac{1}{2} (\Delta + \Omega') \cos \frac{1}{2} i = \cos \frac{1}{2} (\varepsilon + J) \cos \frac{1}{2} \vartheta$$

$$\sin \frac{1}{2} (\Delta - \Omega') \sin \frac{1}{2} i = \sin \frac{1}{2} (\varepsilon - J) \sin \frac{1}{2} \vartheta$$

$$\cos \frac{1}{2} (\Delta - \Omega') \sin \frac{1}{2} i = \sin \frac{1}{2} (\varepsilon + J) \cos \frac{1}{2} \vartheta;$$

dabei ist J , die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Astr. Nachr. Bd. 199, S. 263) zu $J = 1^\circ 32' 20''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 292* gemachten Angaben über die Elemente der Mondbahn und des Mondäquators werden, teilweise in Verbindung mit den Größen L_\odot und M_\odot auf S. 38, zu verschiedenen Zwecken verwendet:

1) Als Argumente für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B' .

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 7 (S. 377*) gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik τ, ϱ, σ haben die Werte:

$$\tau = -13'' \sin M_\odot + 65'' \sin M_\odot + 26'' \sin 2(L_\odot - M_\odot - \Omega)$$

$$\varrho = -106'' \cos M_\odot + 34'' \cos(2L_\odot - M_\odot - 2\Omega) - 11'' \cos 2(L_\odot - \Omega)$$

$$\sigma \sin J = -108'' \sin M_\odot + 34'' \sin(2L_\odot - M_\odot - 2\Omega) - 11'' \sin 2(L_\odot - \Omega)$$

Diese Zahlenangaben beruhen auf der Annahme $f = 0.73$, worüber F. Hayn (Astr. Nachr. Bd. 199, S. 264) einzusehen ist.

Ephemeride für den Mondkrater Mösting A.

(S. 293*—297*).

Die Ephemeride des Mondkraters Mösting A. dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für $^{\text{oh}}$ Welt-Zeit und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_\odot - \alpha_k$ in Rektaszension und $\delta_\odot - \delta_k$ in Deklination zwischen der

Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des Kraters, welche von der des Mondes p_α zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man $\alpha_\alpha - \alpha_k$, $\delta_\alpha - \delta_k$ und $\log \sin p_k$ mit der Beobachtungszeit. Fügt man alsdann $\alpha_\alpha - \alpha_k$ und $\delta_\alpha - \delta_k$ zum geozentrischen Ort des Kraters (die Parallaxe wird mit p_k und δ_k , der Deklination des Kraters, berechnet), so hat man die geozentrische Rektaszension und Deklination des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A. angeschlossen, so bestimme man zunächst die topozentrischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen $\alpha'_\alpha - \alpha'_k$ und $\delta'_\alpha - \delta'_k$ zwischen Mondmittelpunkt und Mösting A. aus folgenden Identitäten:

$$\begin{aligned}\alpha'_\alpha - \alpha'_k &= \alpha_\alpha - \alpha_k + (\alpha'_\alpha - \alpha_\alpha) - (\alpha'_k - \alpha_k) \\ \delta'_\alpha - \delta'_k &= \delta_\alpha - \delta_k + (\delta'_\alpha - \delta_\alpha) - (\delta'_k - \delta_k).\end{aligned}$$

Verbindet man die so erhaltenen topozentrischen Abstände zwischen der Mondmitte und Mösting A. mit den mikrometrischen Messungen zwischen Mösting A. und einem zweiten Krater, so erhält man die topozentrische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hilfe von α'_α und δ'_α und den Angaben auf Seite 292* die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die topozentrische AR. und Dekl. des an Mösting A. angeschlossenem Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_\alpha) \cos \frac{1}{2} (\delta' + \delta'_\alpha)$$

$$s \cos \pi_m = \delta' - \delta'_\alpha$$

$$\pi = \pi_m - \frac{1}{2} (\alpha' - \alpha'_\alpha) \sin \frac{1}{2} (\delta' + \delta'_\alpha)$$

$$\sin (K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus h , dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers $15' 32''.59$ (nach J. Peters, Astr. Nachr. Bd. 138, S. 147) eingesetzt werden.

$$\sin d = -\sin \delta'_\alpha \cos K + \cos \delta'_\alpha \sin K \cos \pi$$

$$\cos d \cos (a - \alpha'_\alpha) = -\cos \delta'_\alpha \cos K - \sin \delta'_\alpha \sin K \cos \pi$$

$$\cos d \sin (a - \alpha'_\alpha) = \sin K \sin \pi$$

$$\sin \beta = \sin d \cos i - \cos d \sin i \sin (a - \delta')$$

$$\cos \beta \sin \lambda' = \sin d \sin i + \cos d \cos i \sin (a - \delta')$$

$$\cos \beta \cos \lambda' = \cos d \cos (a - \delta')$$

$$\lambda = \lambda' - 180^\circ - L_\alpha - (A - ?5).$$

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrekturen:

$$\begin{aligned} d\lambda &= +13'' \sin M_{\odot} - 65'' \sin M_{\odot} - 26'' \sin 2(L_{\odot} - M_{\odot} - \Omega) \\ &\quad + \operatorname{tg} \beta [-106'' \cos(L_{\odot} - M_{\odot} - \Omega + \lambda) + 34'' \cos(L_{\odot} - M_{\odot} - \Omega - \lambda) \\ &\quad \quad - 11'' \cos(L_{\odot} - \Omega - \lambda)] \\ d\beta &= +108'' \sin(L_{\odot} - M_{\odot} - \Omega + \lambda) + 34'' \sin(L_{\odot} - M_{\odot} - \Omega - \lambda) \\ &\quad - 11'' \sin(L_{\odot} - \Omega - \lambda) \end{aligned}$$

Bringt man diese Korrekturen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_0 = \lambda + d\lambda, \quad \beta_0 = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A. liegen folgende von F. Hayn ermittelten Konstanten (Astr. Nachr. Bd. 199, S. 263) zugrunde:

$$\begin{aligned} \lambda_0 &= -5^{\circ} 10' 7'', & \beta_0 &= -3^{\circ} 11' 2'' \\ h &= 15' 33''.4 \end{aligned}$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$\begin{aligned} d\lambda &= -13'' \sin M_{\odot} + 65'' \sin M_{\odot} + 26'' \sin 2(L_{\odot} - M_{\odot} - \Omega) \\ d\beta &= -108'' \sin(L_{\odot} - M_{\odot} - \Omega + \lambda_0) - 34'' \sin(L_{\odot} - M_{\odot} - \Omega - \lambda_0) \\ &\quad + 11'' \sin(L_{\odot} - \Omega - \lambda_0), \end{aligned}$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A. sind:

$$\lambda = \lambda_0 + d\lambda, \quad \beta = \beta_0 + d\beta.$$

Die Formeln zur Berechnung der Ephemeride siehe in den Erläuterungen zum Jahrbuch 1916.

Jupitertrabanten (S. 298*—299*).

Die Seiten 298* und 299* enthalten die Zeitangaben (in Welt-Zeit) für die Verfinsterungen der vier hellen Jupitertrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.

Saturnsring (S. 300*—303*, 316*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsrings haben die folgende Bedeutung:

α Große Achse des Saturn.

β Kleine Achse des Saturn.

p_a Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

- b* Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.
- U'* Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.
- B'* Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.
- P'* Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.
- U* Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.
- B* Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.
- P* Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.
- N* Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.
- J* Neigung der Ringebene gegen den Erdäquator.
- ω* Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach H. Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial 17".47 Polar 15".65

Lage des Saturnsrings gegen die Ekliptik und das Äquinoktium
von 1889.25

$\Omega_1 = 167^\circ 57'.0$ und $i_1 = 28^\circ 5'.6$;

Durchmesser des Ringes in der Entfernung 9.53887

$2 R = 39''.35$

Saturnstrabanten (S. 304* — 326*).

Die Berechnungen über die Saturnstrabanten sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. **XI** abgeleiteten, in Astr. Nachr. Bd. **162**, S. 325 u. ff. und von G. Struve in Veröff. Berlin-Babelsberg **VI**. 1 weiter verbesserten Elementen durchgeführt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse

$= \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Die den Ephemeriden zugrunde liegenden Elemente sind:

MIMAS (II, Seite 195)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 127^\circ 19'.0$$

$$n = 381^\circ.9945$$

$$\delta l = -44^\circ.243 \sin (116^\circ.46 + 5^\circ.075 t)$$

$$- 0^\circ.75 \sin 3 (116^\circ.46 + 5^\circ.075 t)$$

$$l_1 = E_0 + n t_a + \delta l$$

$$\Theta = 54^\circ.7 - 365^\circ.3 t$$

$$\gamma = 1^\circ 36'.5$$

$$\Pi_1 = 107^\circ.2 + 365^\circ.3 t$$

$$e = 0.0190$$

$$a = 26''.814$$

ENCELADUS (II, Seite 183)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 199^\circ 19'.8$$

$$n = 262^\circ.73199$$

$$\delta l = +11'.24 \sin (143^\circ + 92^\circ.4 t)$$

$$+ 20'.0 \sin (75^\circ + 29^\circ.3 t)$$

$$l_1 = E_0 + n t_a + \delta l$$

$$\Theta = 328^\circ - 152^\circ.7 t$$

$$\gamma = 1'.4$$

$$\Pi_1 = 308^\circ.38 + 123^\circ.43 t$$

$$e = 0.0046$$

$$a = 34''.401$$

TETHYS (II, Seite 195)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 284^\circ 31'.0$$

$$n = 190^\circ.69795$$

$$\delta l = +118'.90 \sin (116^\circ.46 + 5^\circ.075 t)$$

$$+ 2'.02 \sin 3 (116^\circ.46 + 5^\circ.075 t)$$

$$l_1 = E_0 + n t_a + \delta l$$

$$\Theta = 110^\circ.55 - 72^\circ.5 t$$

$$\gamma = 1^\circ 4'.36$$

$$e = 0.0000$$

$$a = 42''.586$$

DIONE (II, Seite 183)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 253^\circ 51'.4$$

$$n = 131^\circ.534955$$

$$\delta l = -1'.21 \sin (143^\circ + 92^\circ.4 t)$$

$$- 2'.13 \sin (75^\circ + 29^\circ.3 t)$$

$$l_1 = E_0 + n t_a + \delta l$$

$$\Theta = 276^\circ - 31^\circ.0 \, t$$

$$\gamma = 4'.0$$

$$\Pi_1 = 165^\circ + 31^\circ.0 \, t$$

$$e = 0.0020$$

$$a = 54''.543$$

RHEA (G. Struve, Berlin-Bbg. VI, 1, Seite 16)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 358^\circ 23'.8$$

$$n = 79^\circ.690087$$

$$E - E_0 = + 4'.95 \sin (343^\circ.4 - 10^\circ.1 \, t)$$

$$l = E_0 + n t_d + (E - E_0)$$

$$(\Omega - \Omega_1) \sin i_1 = 20'.74 \sin (343^\circ.36 - 10^\circ.10 t) - 0'.38 + 1'.00 \sin (48^\circ.5 - 0^\circ.50 t)$$

$$i - i_1 = 20'.74 \cos (343^\circ.36 - 10^\circ.10 t) - 2'.79 + 1'.00 \cos (48^\circ.5 - 0^\circ.50 t)$$

$$\Pi = 276^\circ.25 + 0^\circ.53 \, t + 17^\circ.64 \sin [9^\circ.5 \, (t - 1879.59)]$$

$$e = 0.00098 + 0.00030 \cos [9^\circ.5 \, (t - 1879.59)]$$

$$a = 76''.170$$

Ω_1 und i_1 bezeichnen die Lage des Saturnsrings.

TITAN (II, Seite 172)

Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$$E_0 = 260^\circ 25'.1$$

$$n = 22^\circ.577009$$

$$E - E_0 = + 4'.05 \sin (47^\circ.8 - 0^\circ.51 \, t)$$

$$l = E_0 + n t_d + (E - E_0)$$

$$\Omega = 167^\circ 51'.2 + 35'.84 \sin (47^\circ.8 - 0^\circ.506 \, t) + 0'.837 \, t$$

$$i = 27^\circ 28'.4 + 16'.88 \cos (47^\circ.8 - 0^\circ.506 \, t)$$

$$\Pi = 276^\circ 15' + 31'.7 \, t + 22'.0 (\sin 2g - \sin 2g_0)$$

$$e = 0.02886 + 0.000186 (\cos 2g_0 - \cos 2g)$$

$$g = \Pi - \Omega - 4^\circ.5$$

$$g_0 = g \text{ für } t = 0$$

$$a = 176''.578$$

HYPERION (II, Seite 290)

Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$$E_0 = 304^\circ.53$$

$$n = 16^\circ.919983$$

$$\delta l = 9^\circ.16 \sin (200^\circ.5 + 0^\circ.56206 \, t_d)$$

$$l = E_0 + n t_d + \delta l$$

Äquinoktium 1890.0. Epoche 1890.0 + t

$$\Omega = 167^\circ 49'.7 + 42'.4 \sin (47^\circ.8 - 0^\circ.50 t) + 78'.1 \sin (121^\circ.7 - 2^\circ.0 t)$$

$$i = 27^\circ 20'.8 + 19'.6 \cos (47^\circ.8 - 0^\circ.50 t) + 36'.2 \cos (121^\circ.7 - 2^\circ.0 t)$$

Epoche und Äquinoktium: $1888.890 + t$

$$II = 276^{\circ}.50 - 18^{\circ}.663t + 14^{\circ}.0 \sin(-0^{\circ}.84 + 19^{\circ}.191t) \\ - 1^{\circ}.5 \sin(-1^{\circ}.68 + 38^{\circ}.382t)$$

$$e = 0.1043 + 0.0230 \cos(-0^{\circ}.84 + 19^{\circ}.191t) + \delta e$$

$$\delta e = -0.00044 \cos(200^{\circ}.5 + 0^{\circ}.56206t)$$

$$a = 213''.92 + \delta a$$

$$\delta a = -0.00354a \cos(200^{\circ}.5 + 0^{\circ}.56206t).$$

JAPETUS (I, Seite 87; II, Seite 139)

Epoche: 1885 Sept. 1.0 Mittl. Zt. Grw.

$$E_0 = 75^{\circ} 26'.4$$

$$i = 18^{\circ} 28'.3 - 0'.54t$$

$$n = 4^{\circ}.537997$$

$$II = 354^{\circ} 30' + 7'.9t$$

$$l = E_0 + n t_a$$

$$e = 0.02836 + 0.000015t$$

$$\Omega = 142^{\circ} 12'.4 - 1'.48t$$

$$a = 514''.59$$

Hierin bedeuten:

l, l = Mittlere Länge in der Bahn

n = Tropische mittlere tägliche Bewegung

δl = Libration

t_a = Anzahl der Tage seit der Anfangsepoche

t = Anzahl der Jahre seit der Anfangsepoche

Θ = Knoten auf dem Saturnsäquator

Ω = Knoten auf der Ekliptik

γ = Neigung der Trabantenbahn gegen den Saturnsäquator

i = Neigung der Trabantenbahn gegen die Ekliptik

II, II = Perisaturnium

e = Exzentrizität

a = Halbachse der Trabantenbahn in der mittleren Entfernung (Δ) = 9.53887

l, II und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und II vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die sechs inneren Trabanten auf den Seiten 304* bis 312* die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X -Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y -Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u-U).$$

(Δ) = 9.53887 bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, Δ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt. Die Größen L und $(v - M)$ sind auf den Seiten 304*—312* und 314*—315* zu finden. $\log \frac{1}{1 + \zeta}$ ist auf Seite 316* enthalten.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1 + \zeta} \frac{r}{a} \sin(u - U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1 + \zeta} \frac{r}{a} \sin B [\cos(u - U) + \sin \gamma \cotg B \sin(u - \vartheta)].$$

Die Werte von ϑ , der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich auf Seite 316*; auch ist hier für Rhea γ , weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben.

Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$

$$s \cos(p - P) = y$$

$$\Delta \alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\Delta \delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 317*—322* finden sich für die äußeren Trabanten Hyperion und Japetus, außer den Hilfsgrößen U , B und P , die genäherten Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet.

Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantörter sind auf das mittlere Äquinoktium der Epoche bezogen.

Zum Schluß enthalten die Seiten 323*—326* die Zeitangaben (in Welt-Zeit) für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen ($u - U = \pm 90^\circ$) und für die oberen und unteren Konjunktionen ($u - U = 0^\circ, 180^\circ$) von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 327*—328*).

In der Übersicht der Konstellationen des Jahres 1931 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne und Mond, sowie die Angaben der Epochen, zu welchen

sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen. Die Angaben über Konjunktion und Opposition der Planeten mit der Sonne entsprechen den Zeiten, zu denen der Längenunterschied zwischen Planet und Sonne 0° oder 180° ist.

Hilfstafeln (S. 329*—348*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafeln für Präzessionswerte (S. 329*—331*).

a) Präzession in Rektaszension und Deklination (Seite 329*)

$$p_\alpha = m + \frac{1}{15} n \sin \alpha \operatorname{tg} \delta$$

$$p_\delta = n \cos \alpha$$

b) Präzessionswerte m , n , ψ , π , Π und ε , die mittlere Schiefe der Ekliptik (Seite 329*).

Mit diesen Werten berechnet sich die Präzession für die Elemente einer Bahnebene im System der Ekliptik nach:

$$p_\Omega = \psi - \pi \cotg i \sin (\Pi - \Omega)$$

$$p_i = -\pi \cos (\Pi - \Omega)$$

$$p_\omega = \pi \operatorname{cosec} i \sin (\Pi - \Omega)$$

und im System des Äquators nach:

$$p_{\Omega'} = m - n \cotg i' \cos \Omega'$$

$$p_{i'} = -n \sin \Omega'$$

$$p_{\omega'} = n \cos \Omega' \operatorname{cosec} i'$$

c) Präzession in Länge und Breite (Seite 330*—331*).

$$p_\lambda = \psi + \pi \operatorname{tg} \beta \cos (\Pi - \lambda)$$

$$p_\beta = \pi \sin (\Pi - \lambda)$$

Den Tafeln a) und c) liegen die Präzessionswerte für 1925.0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916.

2) Tafel des halben Tagbogens (S. 332*—333*), berechnet mit der Horizontalrefraktion $34'.9$ für geographische Breiten von $+30^\circ$ bis $+60^\circ$ und Deklinationen von -30° bis $+30^\circ$.

3) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 334*—337*). Sie geben die Reduktion der für $+50^\circ$ Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen $+30^\circ$ und $+60^\circ$ und sind mit der Horizontalrefraktion $34'.9$ für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

4) Eine Tafel für die Ermittlung eines Datums in der Julianischen Periode (Seite 338*—341*). Die Tafel besteht aus zwei Teilen: Der erste Teil (S. 338*—339*) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage. Man gehe bis zum 4. Oktober des Jahres 1582 mit dem Datum des Julianischen, für spätere Jahre mit dem Datum des Gregorianischen Kalenders in die Tafel ein. Der zweite Teil (S. 340*—341*) gibt für die Jahre 1860—1939 unmittelbar die Anzahl der im Gregorianischen Kalender am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Julianischen Periode verflossenen Tage.

5) Hilfstafeln zur Verwandlung von Mittlerer Zeit in Sternzeit (S. 342*) und von Sternzeit in Mittlere Zeit (S. 343*).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 344*—345*).

7) Die Tafel zur Berechnung der optischen Mondlibration (S. 346*—347*) gibt mit dem Argument $\lambda - \Omega$ die Werte $\Delta\lambda$, a und B entsprechend den Gleichungen:

$$\Delta\lambda = \frac{1}{\arcsin 1'} \tan^2 \frac{1}{2} J \sin 2(\lambda - \Omega)$$

$$a = -\cos(\lambda - \Omega) \sin J$$

$$\tan B = -\sin(\lambda - \Omega) \tan J$$

J = Neigung des Mondäquators gegen die Ekliptik.

Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 292*).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch L_{α} die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_{\alpha} + \Delta\lambda - a(B - \beta)$$

$$b' = B - \beta$$

Der Winkel C , welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos(L_{\alpha} + l' + \Delta - \vartheta)}{\cos \delta_{\alpha}} = -\sin i \frac{\cos(\alpha_{\alpha} - \Omega')}{\cos b'}$$

worin α_{α} , δ_{α} Rektaszension und Deklination des Mondmittelpunktes, gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen i , Δ , ϑ und Ω' haben schon auf S. 367* ihre Erklärung gefunden.

8) Eine Tafel der Hilfsgrößen s und c (S. 348*) zur Berechnung der geozentrischen Breite φ' und der geozentrischen Entfernung ϱ eines Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite φ nach den Formeln:

$$\varrho \sin \varphi' = s \sin \varphi$$

$$\varrho \cos \varphi' = c \cos \varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{1 - e^2}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad c = \frac{1}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad e = \sqrt{2a - a^2}$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung $\alpha = \frac{1}{297.0}$ angenommen.

Koordinaten der Sternwarten (S. 349*—355*).

Die Seiten 349*—355* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend gibt die »Korrektion der Sternzeit« die Differenz: Orts-Sternzeit minus Greenwicher Sternzeit an.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung $1:297.0$ berechnet.

Bei Berechnung von $\log \varrho$ ist die Seehöhe berücksichtigt.

Normalzeiten der wichtigeren Länder (S. 356*).

Auf S. 356* sind die in den wichtigeren Ländern eingeführten Normalzeiten in zwei Gruppen zusammengestellt, je nachdem sie an den Meridian von Greenwich angeschlossen sind oder einen eigenen Landes-Meridian zugrunde legen.

Berichtigungen.

- Jahrbuch 1926, S. III Jupiter, März 29. Die heliozentrische Länge ist 309° anstatt 310° .
- Jahrbuch 1927, S. 394 Spalte 17. Das Vorzeichen des letzten Wertes ist — anstatt +.
- Jahrbuch 1930, S. 92* In der Überschrift lies 1930 anstatt 1928.
- S. 289* Zeile 17 und 19 muß es heißen: Übergang der zentralen, ringförmigen in totale Verfinsterung und Übergang der totalen in zentrale, ringförmige Verfinsterung.
- Jahrbuch 1931, S. 19* Stern 680. In der Spalte Spektrum lies A 3.
- S. 22* Stern 801 heißt [4 Pisc. austr.]
- S. 23* Stern 876. Die jährliche Eigenbewegung in Deklination ist —53.
- S. 67* Stern 269) ζ Geminorum, $\lg \varpi = +0.377$ anstatt -0.377 .
-

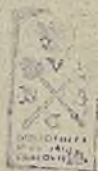
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Astronomischer Jahresbericht

gegründet von

Walter F. Wislicenus.

Mit Unterstützung der ~~Preussischen~~
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1900—1929. 8°.

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» XII—XXX (Jahrg. 1910—1928), bearbeitet im Astronomischen Rechen-Institut, Berlin

Der »Astronomische Jahresbericht« gibt in kurzen Referaten eine Übersicht über sämtliche in den verschiedenen Kultursprachen neu erschienenen Arbeiten auf dem Gebiete der Astronomie und Astrophysik und berücksichtigt auch tunlichst die Geodäsie und Nautische Astronomie, sowie die einschlägige Instrumententechnik. Der Inhalt eines jeden Bandes ist nach den verschiedenen Wissenschaftszweigen in 9 Teile mit Unterparagraphen gegliedert: I. Allgemeines und Geschichtliches. — II. Instrumente. — III. Sphärische Astronomie. — IV. Theoretische Astronomie. — V. Sonne. — VI. Planeten und Monde. — VII. Kometen und Meteore. — VIII. Fixsterne. — IX. Geodäsie und Nautik. — Jedem Bande ist ein ausführliches Namen- und ein nach Stichworten geordnetes Sachregister beigelegt, so daß sämtliche auf ein bestimmtes Gebiet bezüglichen Arbeiten leicht aufzufinden sind.

Im Verlage von Walter de Gruyter & Co.

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- Nr. 2. Allgemeine Störungen der Themis durch Mars und Saturn. Berechnet von Dr. Mönnichmeyer. 1893. M. 1.60
- Nr. 3. Untersuchungen über die Bahn des Olbersschen Kometen. I. Teil. Von F. K. Ginzel. 1893. M. 2.—
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- Nr. 47. Tafeln zur Verwandlung von rechtwinkligen Platten-Koordinaten und sphärischen Koordinaten ineinander. Von J. Peters. 1929. M. 6.—

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